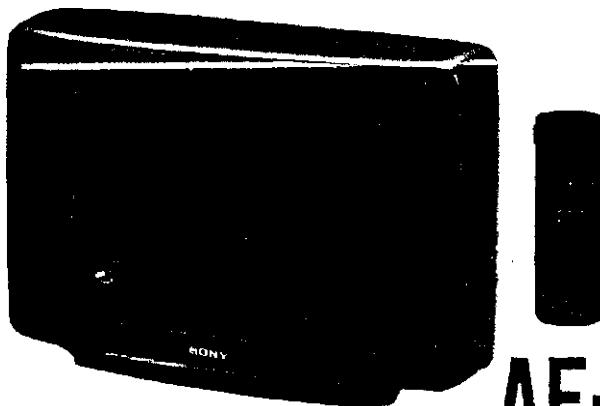


KV-C2161D C2561D C2961D

RM-816

SERVICE MANUAL

AEP Model



AE-1C CHASSIS

KV-C2161D
Chassis No. SCC-F 07 K-A
KV-C2561D
Chassis No. SCC-F 07 F-A
KV-C2961D
Chassis No. SCC-F 07 E-A

MODELS OF THE SAME SERIES	
KV-C2161D/C2561D/C2961D	
KV-C2551E/C2951E	
KV-C2560B/C2960B	

SPECIFICATIONS

[KV-C 2161 D, KV-C 2561 D, KV-C 2961 D]

Television system B/G/H
Color system PAL, SECAM, NTSC3.58, NTSC4.43
Stereo system GERMAN stereo
Channel coverage VHF: E2-E12 UHF: E21-E69
CABLE TV (1) : S1-S41
CABLE TV (2) : S 01-S 05, M 1-M 10, U 1-U 10
Picture tube HI-Black Trinitron tube
Approx. 54.5 cm (21 inches) (KV-C 2161 D)
(Approx. 51 cm picture measured diagonally)
100 ° degree deflection
Approx. 63.5 cm (25 inches) (KV-C 2561 D)
(Approx. 59 cm picture measured diagonally)
110 ° degree deflection
Approx. 72.4 cm (29 inches) (KV-C 2961 D)
(Approx. 68 cm picture measured diagonally)
110 ° degree deflection

Inputs / Outputs Terminals

REAR

-& 21 pin Euro connector (CENELEC standard)
-Inputs for audio and video signals
-Inputs for RGB
-Outputs of TV video and audio signals
Q-2/-021 -pin Euro connector
-Inputs for audio and video signals
-Inputs for S-video
-Outputs for video and audio signals (selectable)
O Audio output(variable)
-phono jacks

FRONT

-Q Video input phono jack
-O Audio inputs (L,R) phono jacks
S-video Inputs-4 pin DIN
Headphone jack : stereo mini jack

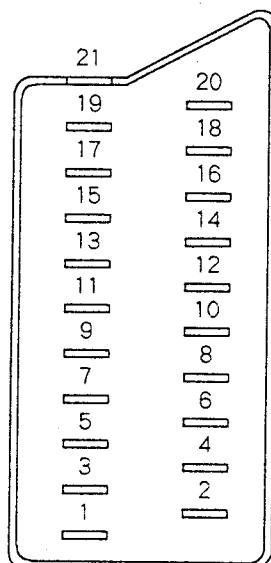
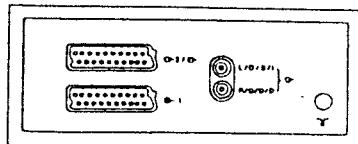
-Continued on next page-

TRINITRON COLOR TV
SONY®

Sound output	15 W + 15 W	[RM-816]	
Power consumption	87 Wh (KV-C2161D) 101 Wh (KV-C2561D) 108 Wh (KV-C2961D)	Remote control system	infrared control
Dimensions	Approx. 645 × 433 × 495 mm (w/h/d) (KV-C2161D) Approx. 720 × 497 × 480 mm (w/h/d) (KV-C2561D) Approx. 814 × 558 × 508 mm (w/h/d) (KV-C2961D)	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Weight	Approx. 25kg (KV-C2161D) Approx. 38kg (KV-C2561D) Approx. 52kg (KV-C2961D)	Dimensions	Approx. 75 × 221 × 23mm (w/h/d)
Supplied accessories	RM-816 Remote Commander (1) IEC designation R6 batteries (2)	Weight	Approx. 230g (including batteries)
		Accessories supplied	IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

21 pin connector (◎1 ◎2)



Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
2	○	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
3	○	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
7	○	●	●	Blue input	0.7 ± 3dB, 75ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 – 12V) : Part mode Low state (0 – 2V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7V ± 3dB, 75ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	—	—	Red input	0.7V ± 3dB, 75ohms, positive
	—	○	○	(S signal) chroma input	0.3V ± 3dB, 75ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 – 3V) Low state (0 – 0.4V) Input impedance : 75ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive Sync : 0.3V (- 3, +)
20	○	—	—	Video input	1V ± 3dB, 75ohms, positive Sync : 0.3V (- 3, +)
	—	○	○	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync : 0.3V (- 3, +) 10dB
21	○	○	○	Common ground (plug, shield)	

○ Connected ● unconnected (open) * at 20Hz – 20kHz

4 Pin connector (◎)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V ± $\frac{3}{10}$ dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE
AND THE ANODE CAP TO THE METAL CHASSIS, CRT
SHIELD, OR CARBON PAINTED ON THE CRT, AFTER
REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

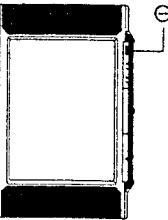
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

1-1. SWITCHING ON/OFF

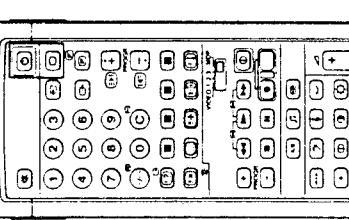
After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).

How to turn the TV on



Action	Result
Press ① on the TV.	The TV will turn on. Note: If the screen remains blank, the TV may be in the standby mode. Press ① or any number button on the commander to switch it on.

How to turn the TV off



Action	Result
A Temporarily Press ① to enter standby mode.	The TV will be in standby. To return to the TV mode press ①.
B Completely Press ① on the TV.	The TV will turn off.

1-2. PRESETTING

After you have installed this TV you need to preset TV channels. TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on this TV before you can watch the TV programmes.

There are 60 spaces for storing these channels.

Slide open the full function side of the remote commander to reveal preset buttons.

How to preset channels automatically

If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset TV channels directly".

Action	Result
1 Press → to enter the preset mode.	
2 Press PROGR + or - or the number buttons to select the programme number to which you want to preset channels.	
3 Press ← + or - once to search forward or backward for channels.	
4 Press ◇ If you want to store the channel which is tuned in. Press → to exit preset mode without storing.	
5 Repeat steps 1 to 4 to store the other channels.	

Note: These buttons should be used in preset mode only.

How to preset channels directly

How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

Action	Result
1 Press \rightarrow to enter the preset mode.	
2 Press PROGR +/- or the number buttons to select the programme number on which you want to preset a channel.	
Note To select a double-digit number, use the $/-\mathbf{--}$ button. For example, if you want to choose 23, press 2, and then 3.	
3 Press C. If you want to select a cable channel, press C twice.	
4 Select the channel number with two number buttons (e.g. 04) by pressing the number buttons.	
Note Press \diamond to store the channel which is tuned in. Press \rightarrow to exit the preset mode without storing.	
5 Press \diamond to store the channel which is tuned in. Press \rightarrow to exit the preset mode without storing.	
Repeat steps 1 to 5 to store the other channels.	

Action	Result
1 Select a programme number you want to name by pressing the PROGR +/- or the number buttons.	
2 Press \rightarrow .	
3 Press O.	
4 Press + or - to select a letter in the alphabet, a number, or a blank space.	
5 Press O.	
6 Repeat steps 4 and 5 to set each letter.	
7 Press O.	

How to tune in a channel temporarily

Action	Result
1 Press C. For cable channels, press C twice.	
2 Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	

You can tune a channel in temporarily, if it has not been preset.

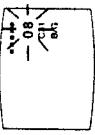
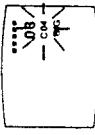
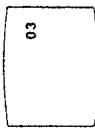
Action	Result
1 Press C. The indication "C" ("S" for cable channels) appears on the screen.	

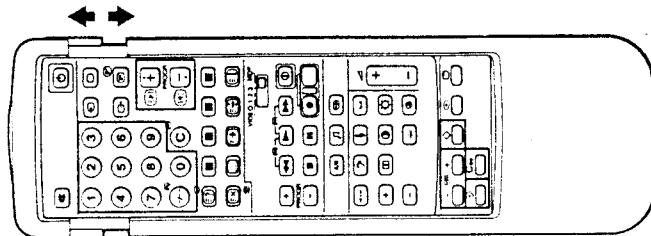
The channel is received, but it is not stored to any programme number.

1-3. BASIC TV OPERATION

How to Skip Programmes
Using the PROGR +/- buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

Note: Press \downarrow on door to open.

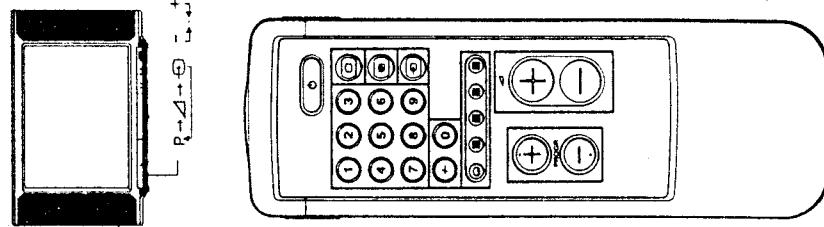
Action	Result
1 Press \Rightarrow to enter the preset mode.	
2 Select the programme number that you want to skip by pressing PROGR +/- or the number buttons.	
3 Press Coo.	
4 Press \diamond .	
Repeat steps 1 to 4 to skip other programme numbers.	

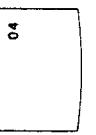
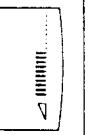


This section introduces you to the basic control functions which are available on the simple side of the remote commander.

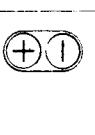
How to Select Programmes

Before you can select programmes make sure that you have preset channels.



Action	Result
Press PROGR +/- on the number buttons.	
To select a double-digit number, use the \downarrow -button. For example, if you want to choose 23, press \downarrow - \downarrow , 2, and then 3.	

How to Adjust the Volume

Action	Result
Press \downarrow or \uparrow .	

How to Use Additional Functions

How to operate with the buttons on the TV
You can also select programmes and adjust the volume using the \uparrow - \downarrow - \rightarrow - \leftarrow buttons on the front of the TV. For operation, first press the \uparrow - \downarrow - \rightarrow - \leftarrow button repeatedly so that the P (for programme) or \triangle (for volume) indication appears on the screen, and then adjust with the \rightarrow - \leftarrow - $+/$ - $-$ buttons.

How to view the teletext

Press \odot . To return to the TV mode, press \odot . For details about the teletext operation.

How to view the video input picture

Press \odot . To return to the TV mode, press \odot . For further details.

Note: The automatic fine tuning will function again when you preset the channel once more.

How to Fine Tune Manually

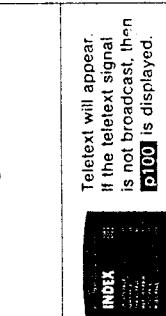
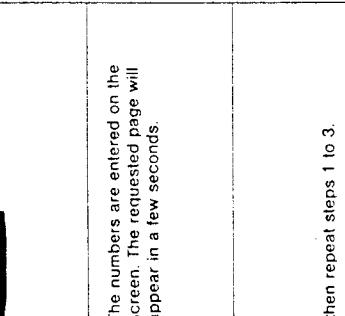
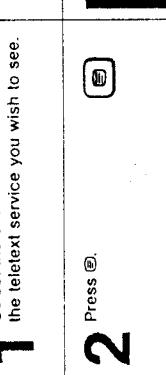
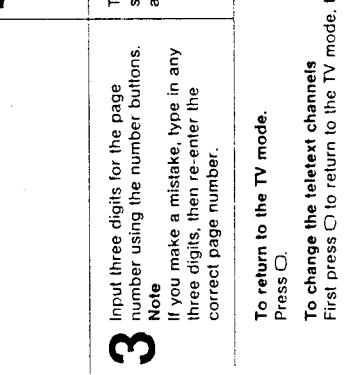
If the picture is distorted, you can fine tune the channel manually.

Action	Result
Press \square + or - repeatedly until the picture looks normal.	The indication \leftarrow \rightarrow appears on the screen.
Press \Rightarrow to enter the preset mode.	The programme number starts flashing.
Press \diamond .	The fine tuning is stored.

1-5. TELETEXT OPERATION

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander. With the simple side of the Remote Commander, only the basic operation is possible.

How to View the Teletext

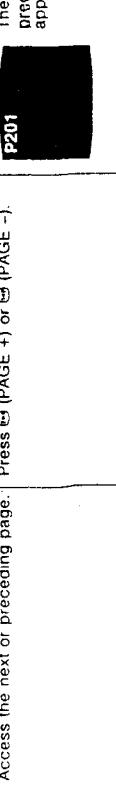
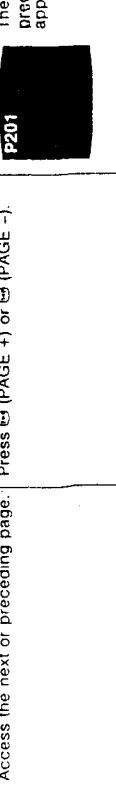
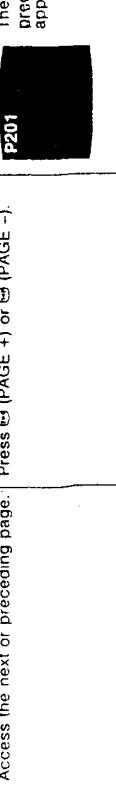
1 Action Press $\textcircled{2}$. 	Result The channel changes on the screen. 
2 Action Press $\textcircled{3}$. 	Result Teletext will appear. If the teletext signal is not broadcast, then p100 is displayed. 
3 Action Input three digits for the page number using the number buttons. Note If you make a mistake, type in any three digits, then re-enter the correct page number. 	Result The numbers are entered on the screen. The requested page will appear in a few seconds.

To return to the TV mode, Press $\textcircled{1}$.

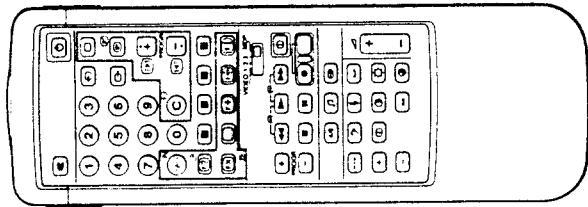
To change the teletext channels
 First, press $\textcircled{1}$ to return to the TV mode, then repeat steps 1 to 3.

Note
 If the signal of the TV channel is weak, teletext errors may often occur.

How to Use the Advanced Features of Teletext

How to Request the index page.	Action Press $\textcircled{1}$ (INDEX).	Result (On-screen display) 	Result The index page appears. 
How to Request the subtitle page (p888).	Action Press $\textcircled{1}$.	Result The subtitle page is displayed (p888).	
How to Access the next or preceding page.	Action Press $\textcircled{2}$ (PAGE +) or $\textcircled{3}$ (PAGE -).	Result The next or preceding page appears.	

Some of the features may not be available depending on the Teletext service.



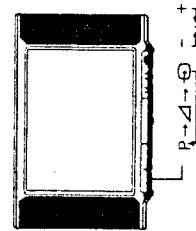
1-6. OPTIONAL CONNECTIONS/OPERATIONS

How to use the FASTEXT Feature

FASTEXT feature allows you to access pages quickly with one key operation. When a FASTEXT page is broadcast, a colour coded menu appears at the bottom of the screen. Each coloured prompt corresponds to the coloured buttons on either side of your Remote Commander.

Operation

Action	Result
Press one of the coloured buttons which corresponds to the coloured prompt on the teletext.	The selected teletext page appears.



How to view the video input picture

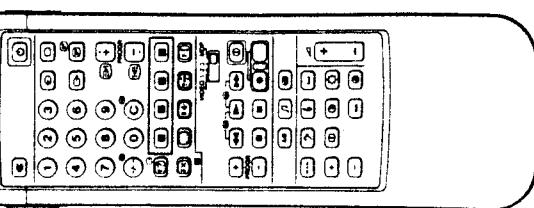
You can view the picture of video equipment connected to the input terminals by selecting the input mode.

Operation

Action	Result
Press \odot repeatedly to select the desired input.	

To return to the TV mode, press the \square button.

Note
Correct FASTEXT operation depends on the necessary signals sent from the TV station.



How to select the Output

The $\odot/2/\odot$ connector outputs four kinds of audio/video signals. You have to select one of them as follows.

Operation

Action	Result
Press \odot repeatedly to select the desired input.	

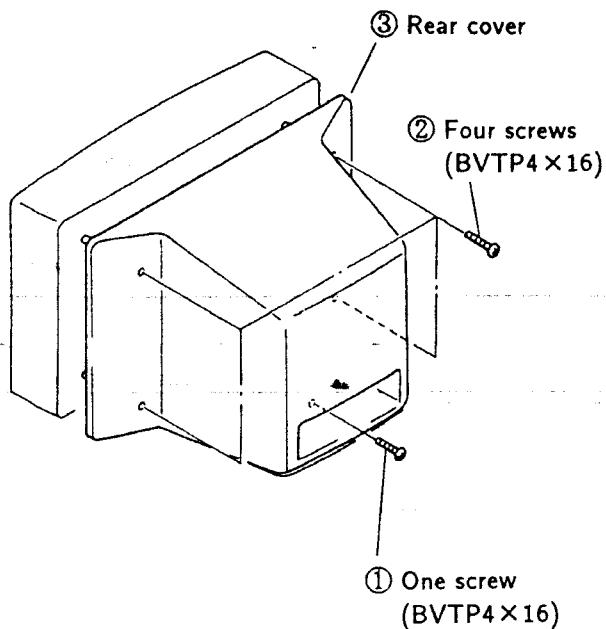
Symbol for the selected output appears. (See the table below.)

Output modes

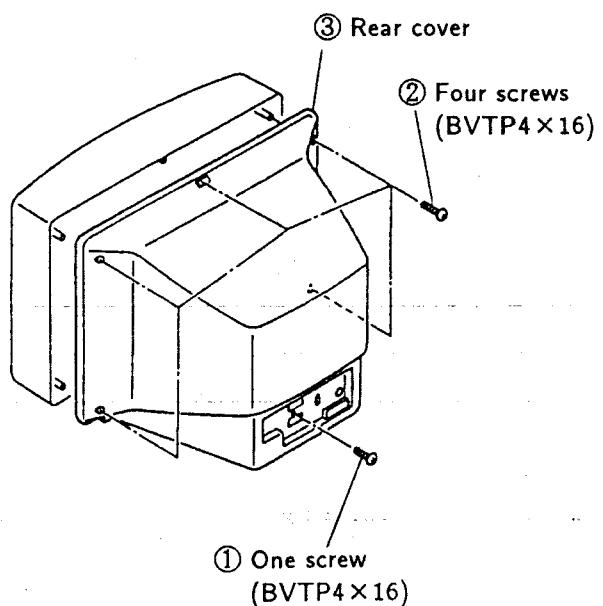
Symbol	Output from
1 \odot	The audio/video signal from the $\odot/1$ connector.
2 \odot	The audio/video signal from the $\odot/2/\odot$ connector.
3 \odot	The audio/video signal from the $\odot/3$ connectors.
TV \odot	The audio/video signal from the \odot terminal.

SECTION 2 DISASSEMBLY

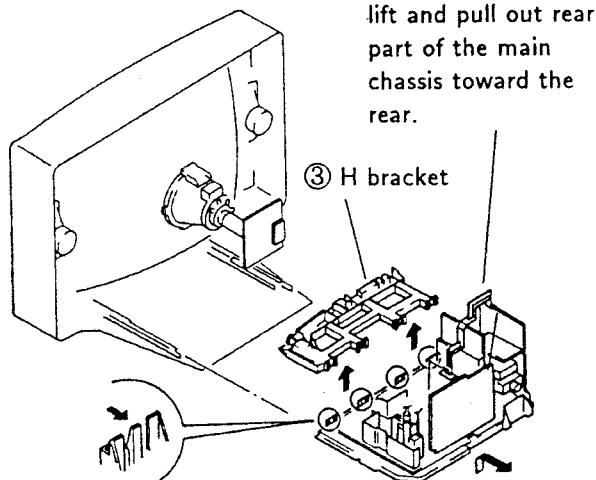
2-1-1. REAR COVER REMOVAL (21 inch)



2-1-2. REAR COVER REMOVAL (25inch, 29inch)

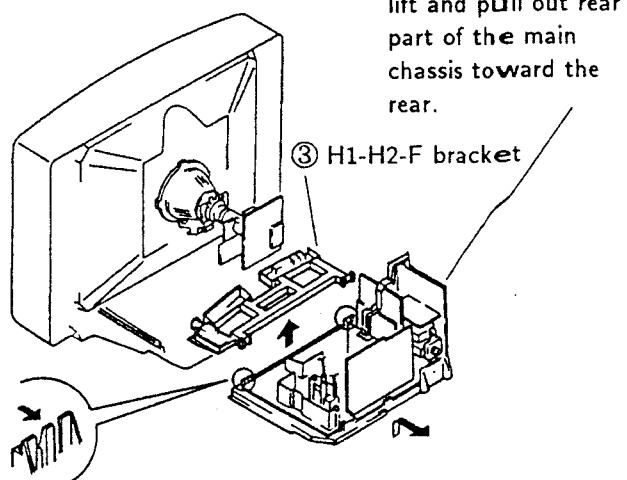


2-2-1. CHASSIS ASSEMBLY REMOVAL (21inch)



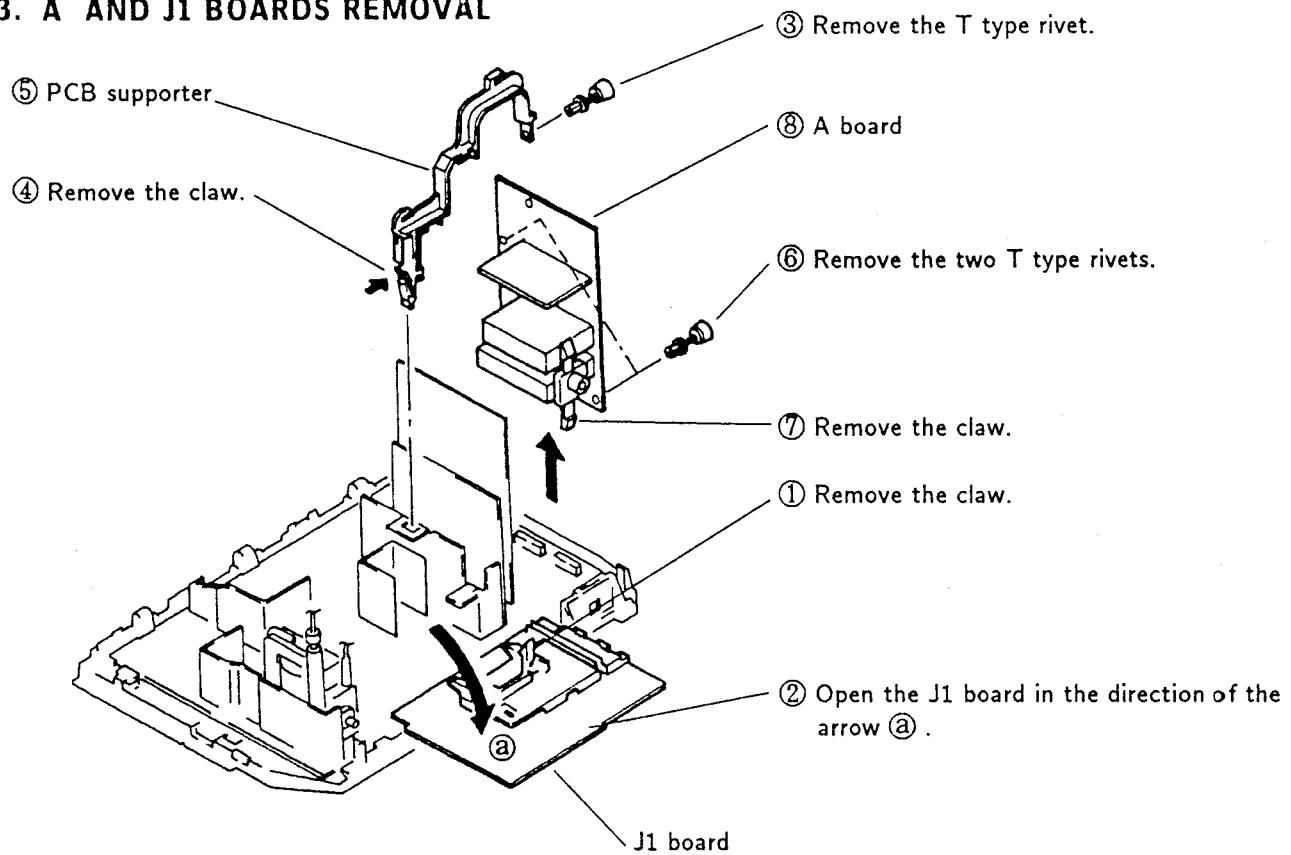
- ① After the assembly of the main chassis, lift and pull out rear part of the main chassis toward the rear.
- ② Push the four claws of the main chassis in the direction of arrow and remove the H bracket upwards.

2-2-2. CHASSIS ASSEMBLY REMOVAL (25inch, 29inch)

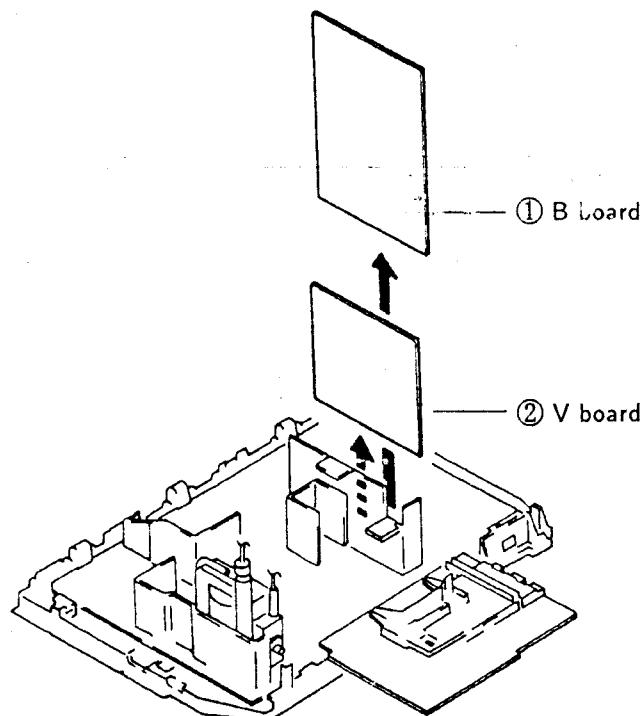


- ① After the assembly of the main chassis, lift and pull out rear part of the main chassis toward the rear.
- ② Push the two claws of the main chassis in the direction of arrow and remove the H1-H2-F bracket upwards.

2-3. A AND J1 BOARDS REMOVAL



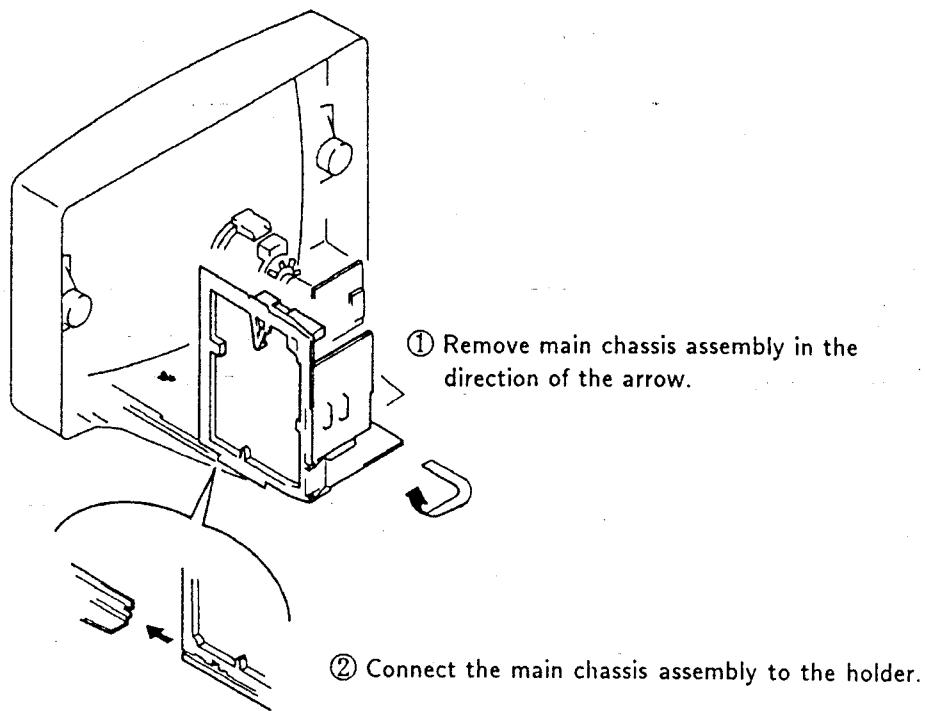
2-4. B AND V BOARDS REMOVAL



Note : 10 pin extension cable (S-0945-001-0)

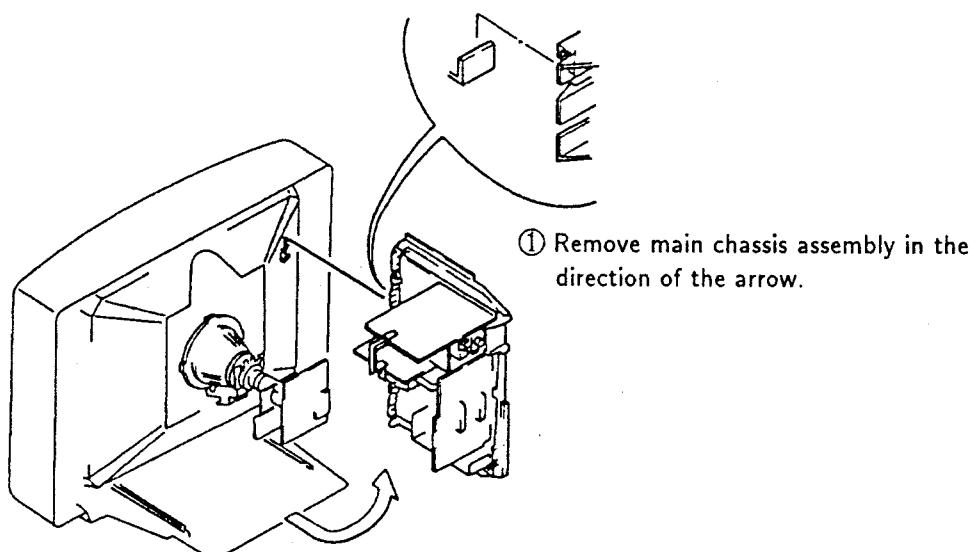
2-5-1. SERVICE POSITION (21inch)

- * Remove the bracket from the main chassis assembly and then perform the following servicing.
(Refer to 2-2-1. CHASSIS ASSEMBLY REMOVAL.)

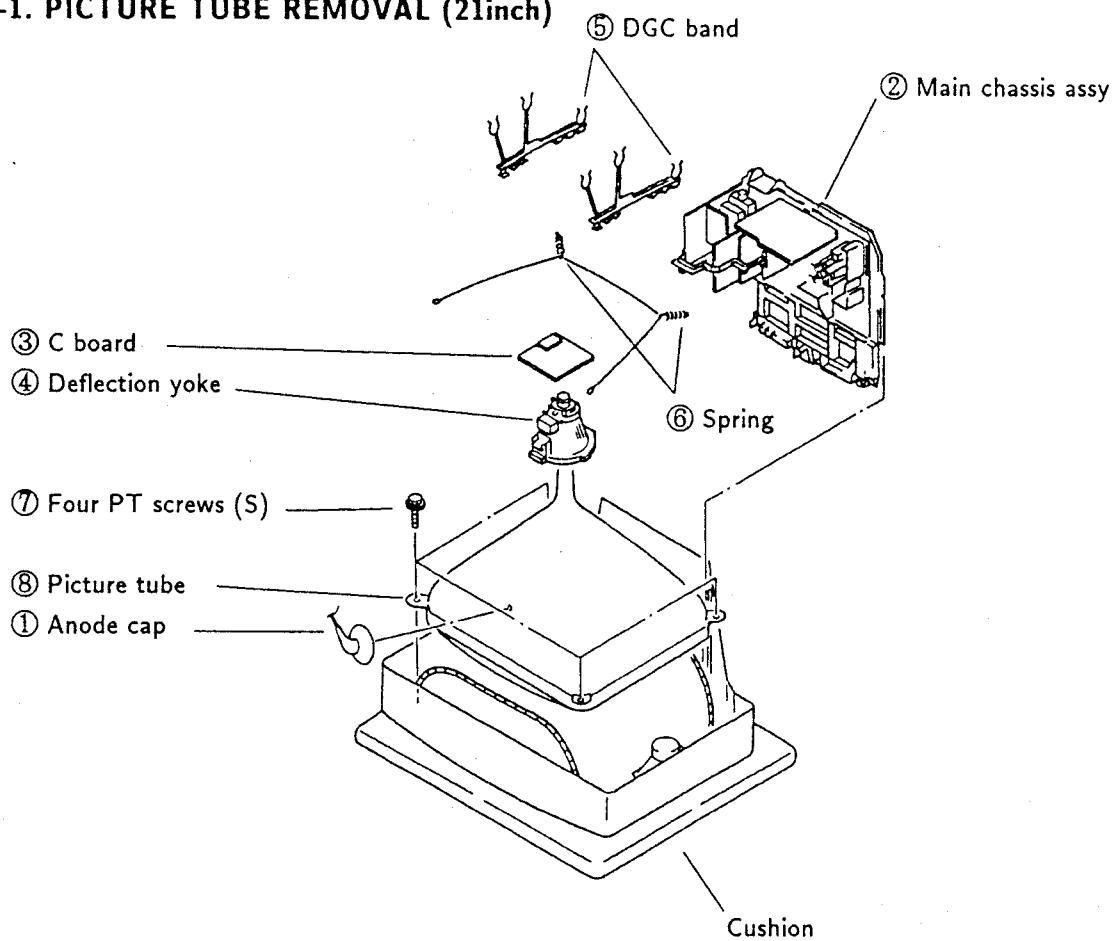


2-5-2. SERVICE POSITION (25inch, 29inch)

- * Remove the connector bracket from the main chassis assembly and then perform the following servicing.
(Refer to 2-2-2. CHASSIS ASSEMBLY REMOVAL.)



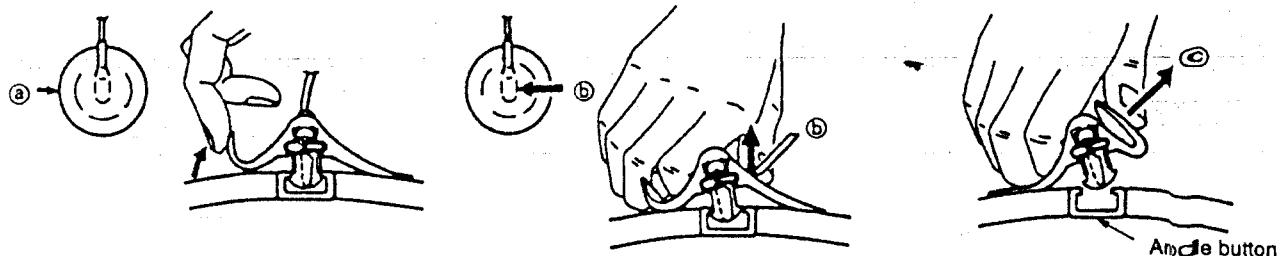
2-6-1. PICTURE TUBE REMOVAL (21inch)



• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

• REMOVING PROCEDURES

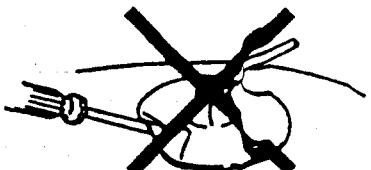
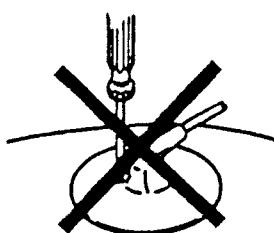


① Turn up one side of the rubber cap in the direction indicated by the arrow ②. ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ③.

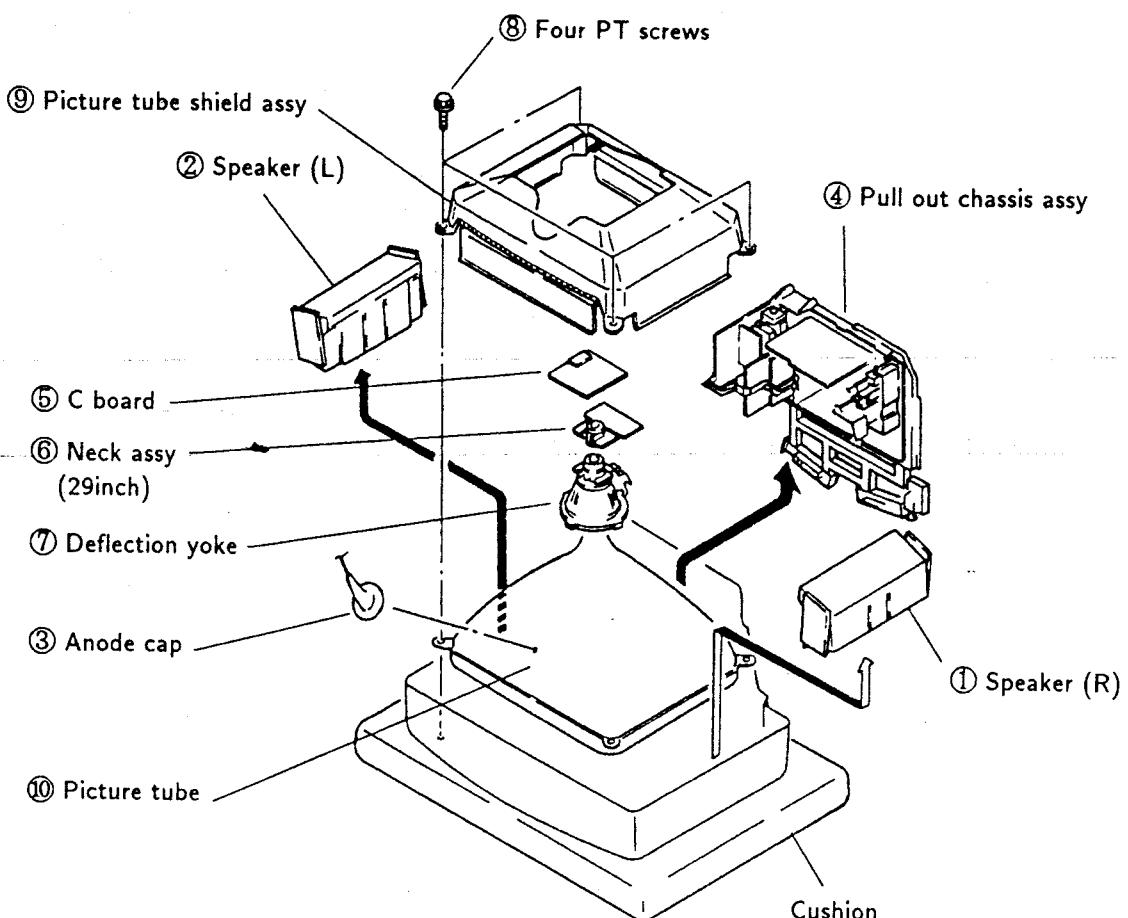
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ④.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



2-6-2. PICTURE TUBE REMOVAL (25inch, 29inch)

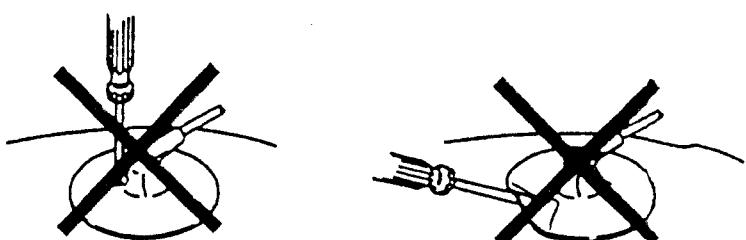


• REMOVAL OF ANODE-CAP • REMOVING PROCEDURES

① Turn up one side of the rubber cap in the direction indicated by the arrow ②. ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ③. ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ④.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch below should be set as follows unless otherwise noted :

CONTRAST control 80% (or Normal by commander)
 BRIGHTNESS control 50%

Perform the adjustments in order as follows:

Preparation: (21 inch, 25 inch)

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

CONTRAST } normal
 BRIGHTNESS

2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig.3-1 - 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
5. Switch over the raster signal to blue and blue and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

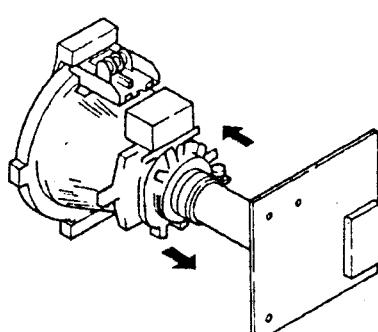


Fig.3-1

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

Note: Test Equipment Required:

1. Color bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

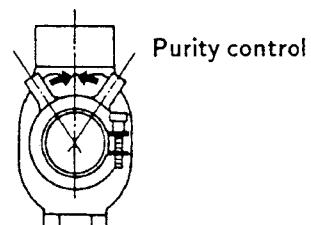


Fig.3-2

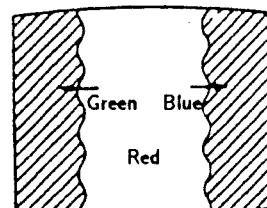


Fig.3-3

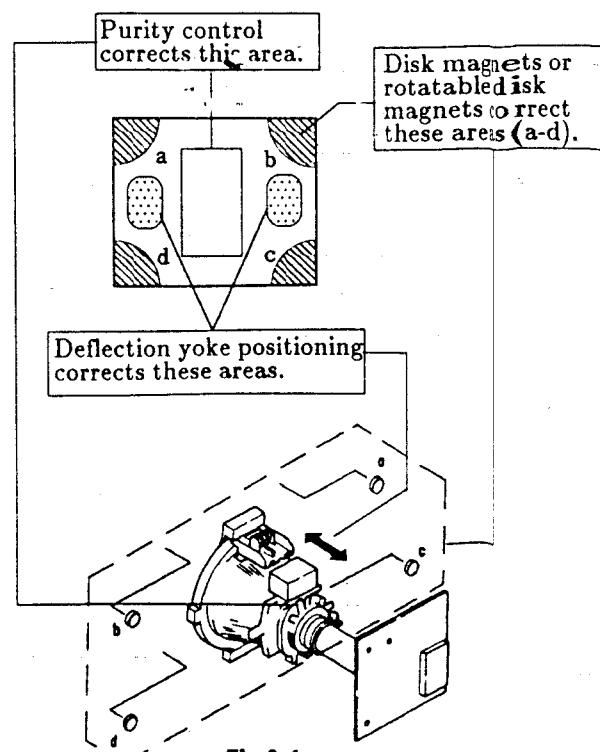


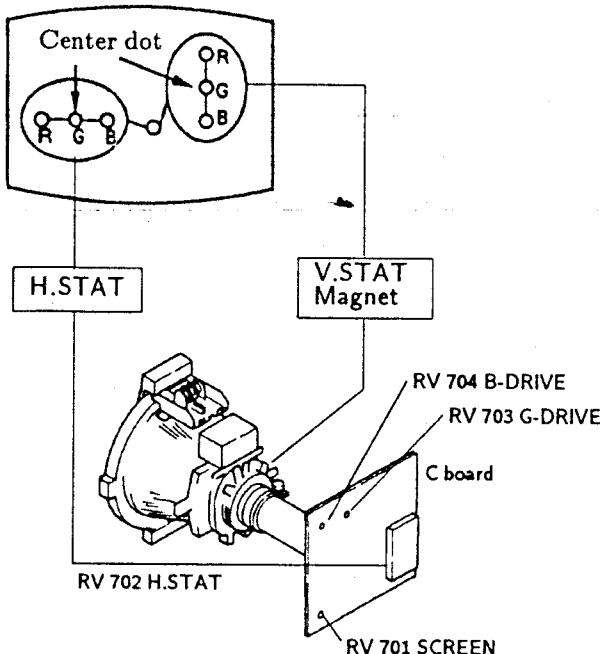
Fig.3-4

3-2. CONVERGENCE

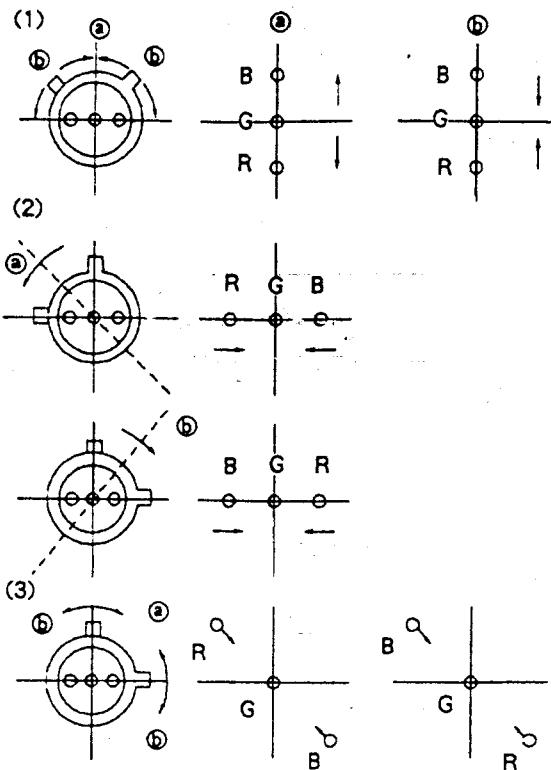
Preparation:

- Before starting, perform FOCUS, H.SIZE, and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

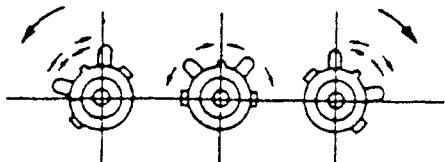
(1) Horizontal and Vertical Static Convergence



4. When the V.STAT magnet is moved in the direction of arrow ② and ③, red, green and blue dots move as shown below.



1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



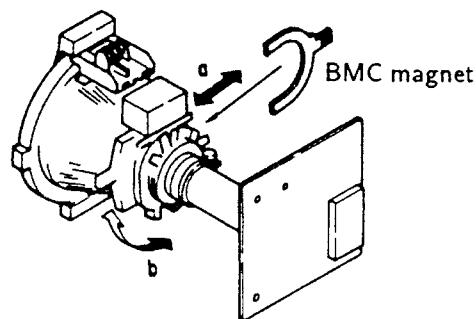
(KV-21 inch only)

If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

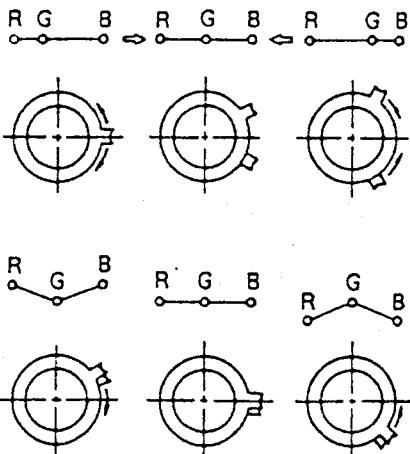
Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.



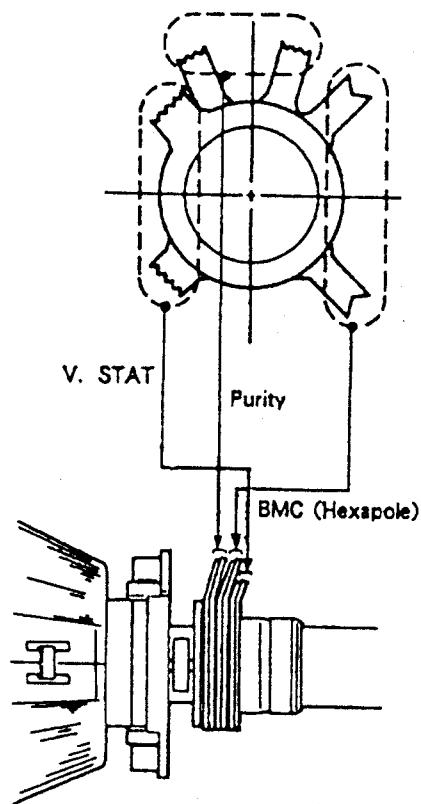
(KV-25 inch only)

- Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



(2) Dynamic Convergence Adjustment

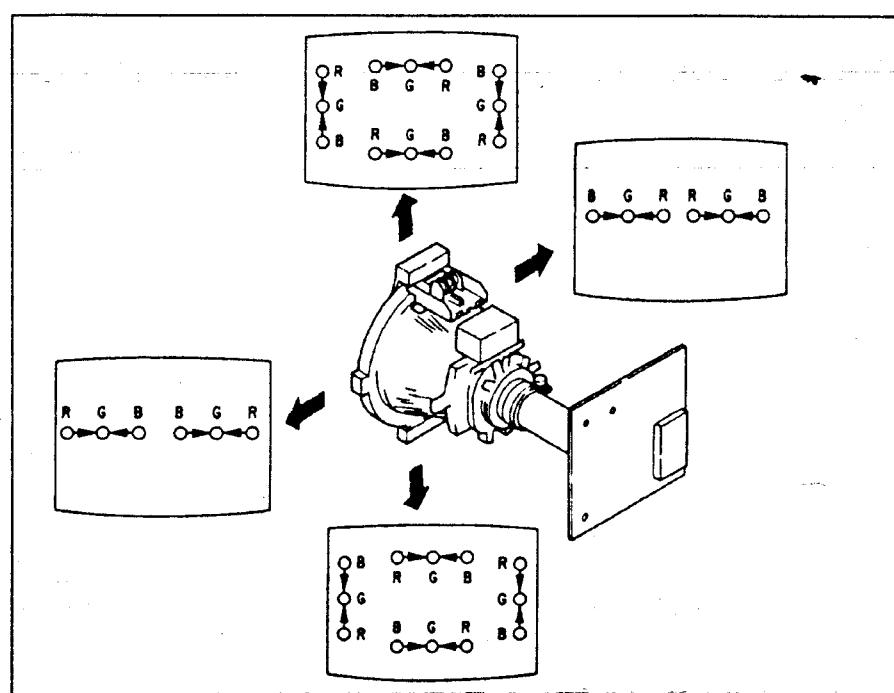
Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.

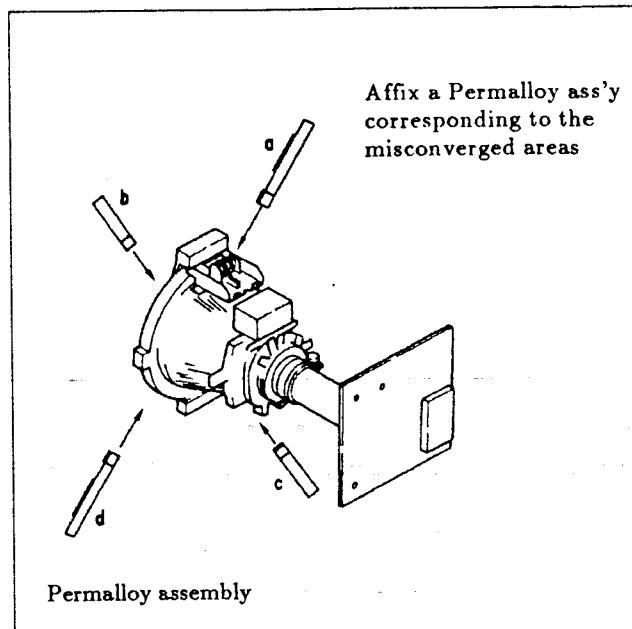
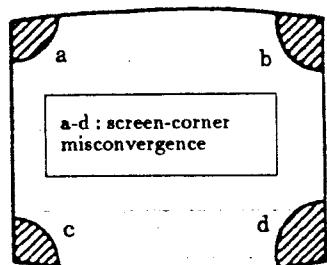
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.

4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

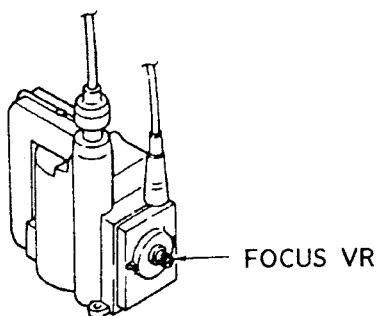


(3) Screen-corner Convergence

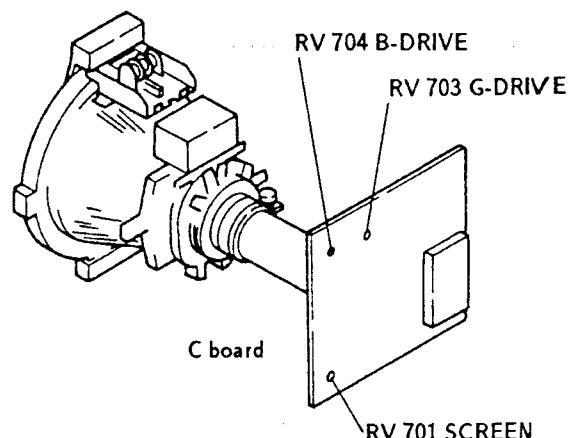


3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.



3-4. SCREEN (G 2) and WHITE BALANCE



Screen (G 2) Setting

1. Input dot signal from the pattern generator.
2. Set the picture BRIGHTNESS control to minimum level.
3. Apply 170 V DC to the cathodes of R, G and B from an external power source.
4. While watching the picture, adjust the G 2 volume (RV701) immediately before fly-back line disappears.

White Balance Adjustment

1. Input all-white signal from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

Preparations : (29 inch)

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-5. BEAM LANDING

1. Input the white signal with the pattern generator.
Contrast } normal
Brightness
2. Position neck ass'y as shown in Fig 3-6.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
(See Figures 3-5 through 3-7.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-5.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-8.)

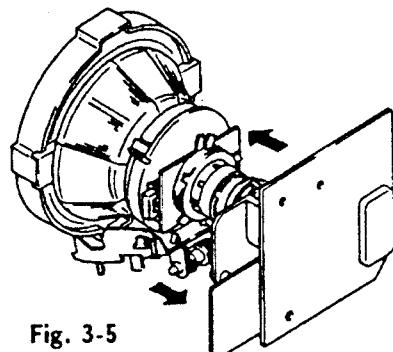


Fig. 3-5

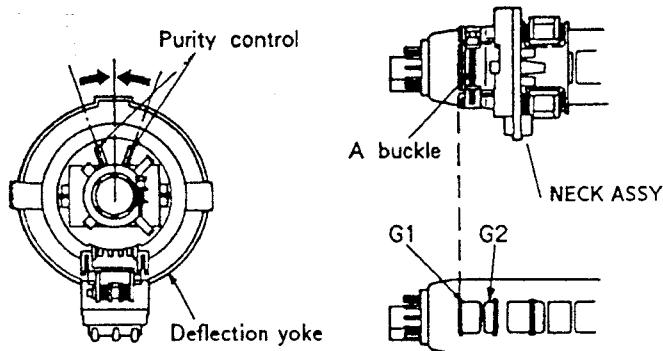


Fig. 3-6

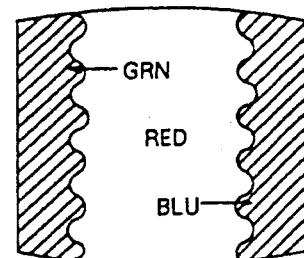


Fig. 3-7

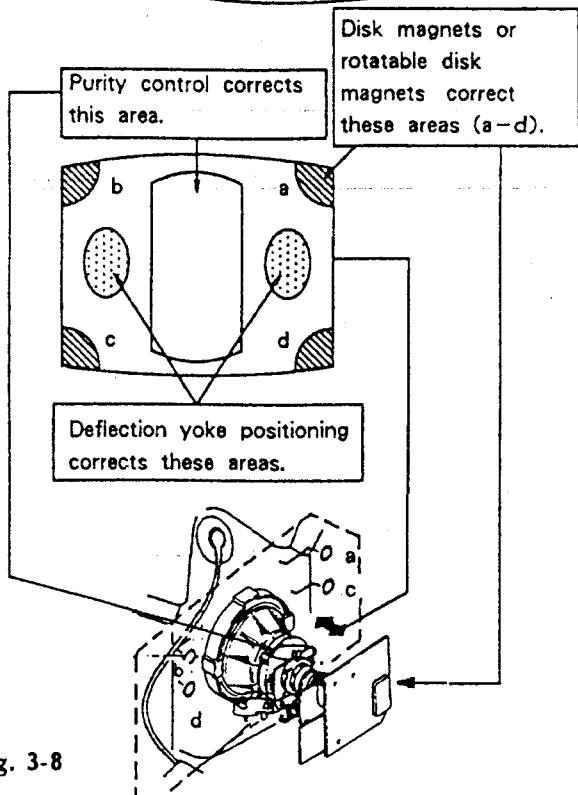
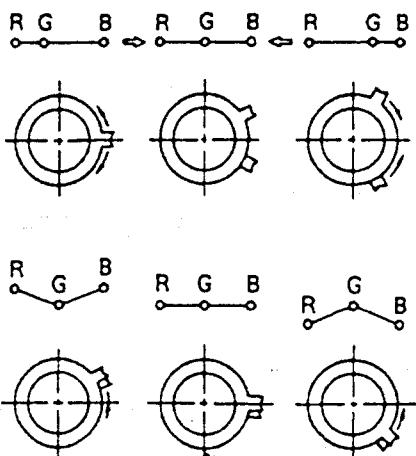


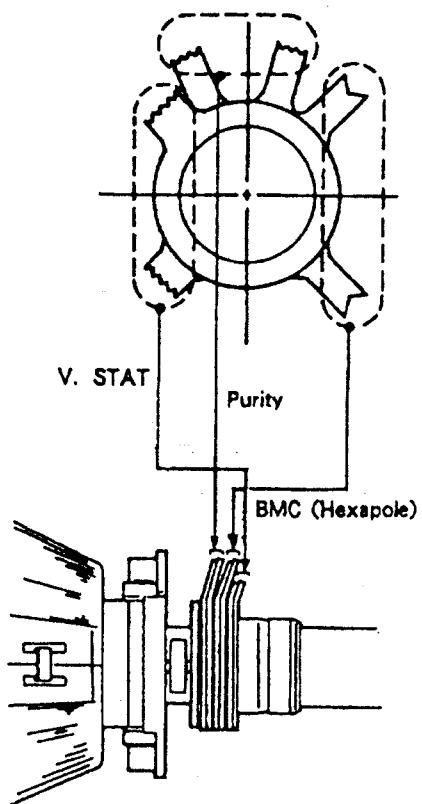
Fig. 3-8

- Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



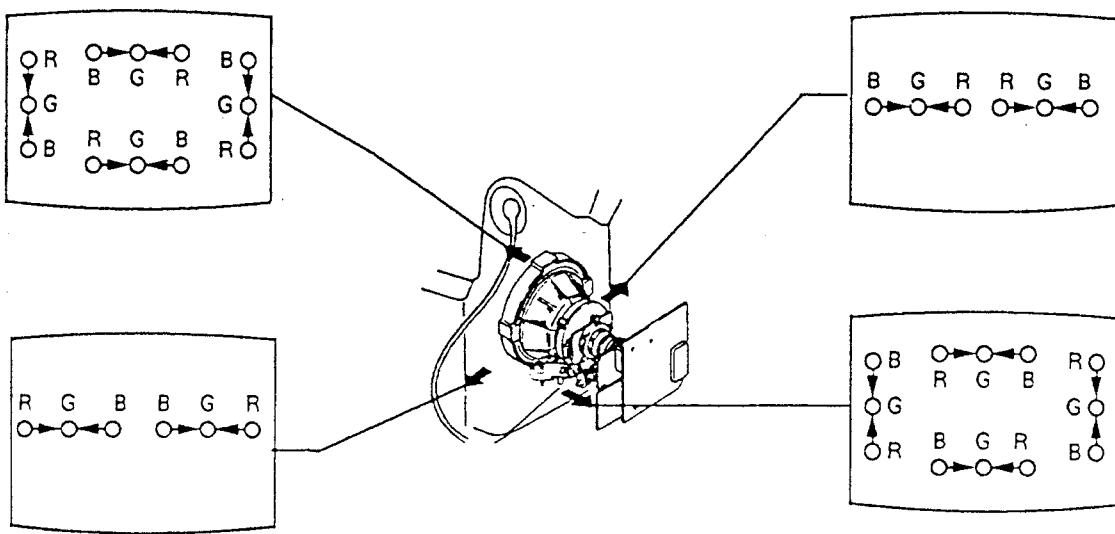
(2) Dynamic convergence adjustment

Preparations :

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.

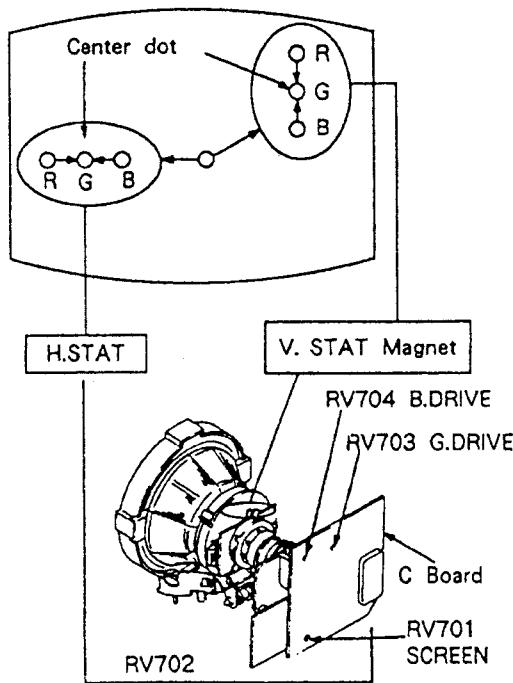


3-6. CONVERGENCE

Preparations :

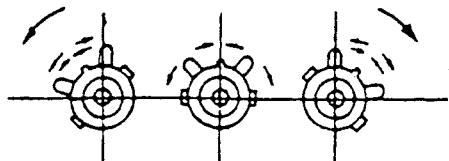
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

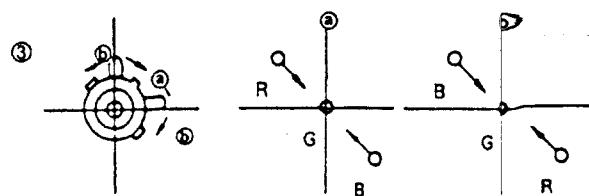
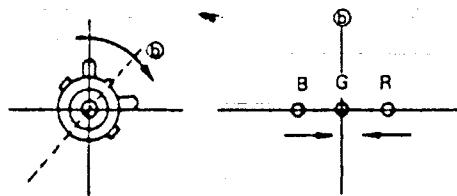
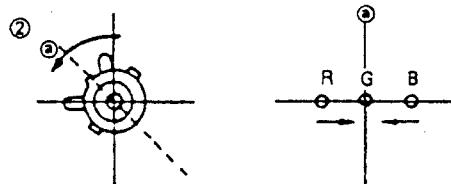
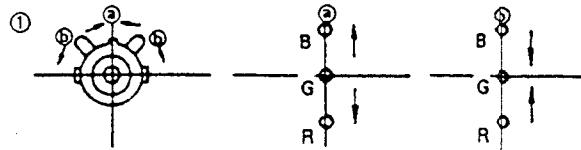


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

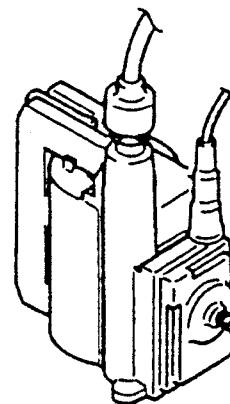
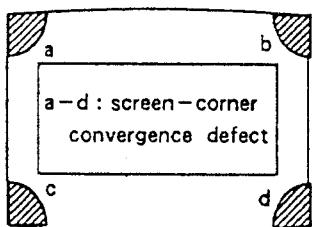
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



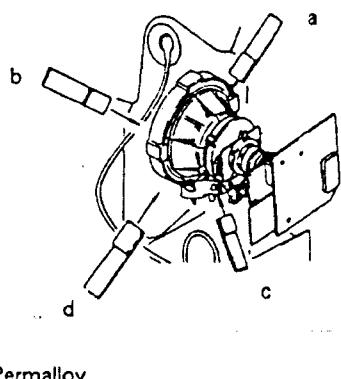
4. If the V.STAT magnet is moved in the direction of the ① and ② arrows, the red, green, and blue points move as shown below.



(3) Screen corner convergence



Install the permalloy assembly for the section with faulty.



3-7. FOCUS

Adjust the focus to optimize the screen.

3-8. WHITE BALANCE

[Screen G2 setting]

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

[White balance adjustment]

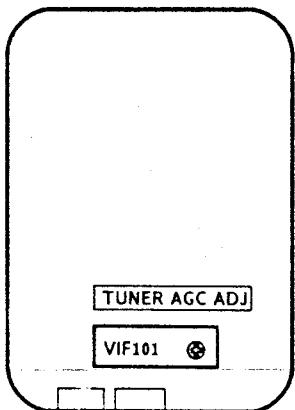
1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4

CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

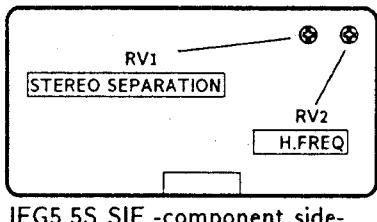


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (AGC VR)

1. Align with an appropriate signal between stations.
2. Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

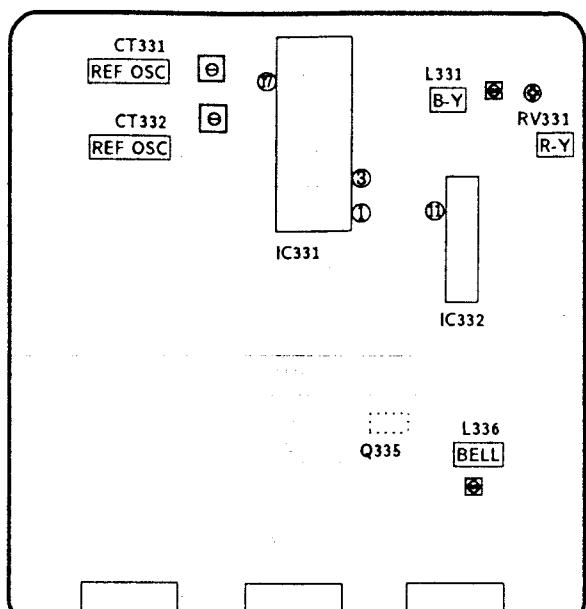
STEREO SEPARATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minimum.

H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper between pin⑫ IC4 and GND.
2. Connect a frequency counter to pin④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ) $15.625 \pm 50\text{Hz}$.
4. After adjustment, remove the jamper.

4-2. B BOARD ADJUSTMENTS



B BOARD (COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

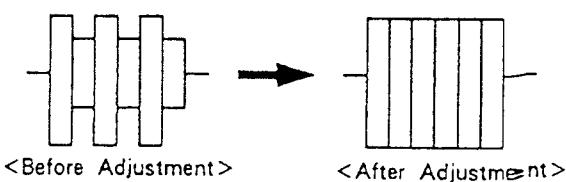
1. Input a PAL color bar signal.
2. Ground pin ⑯ of the IC331.
3. Adjust CT332 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

1. Input an NTSC358 color bar signal.
2. Ground pin ⑯ of IC331.
3. Adjust the CT331 to obtain synchronization.
4. Remove the jumper grounding pin ⑯ of IC331.

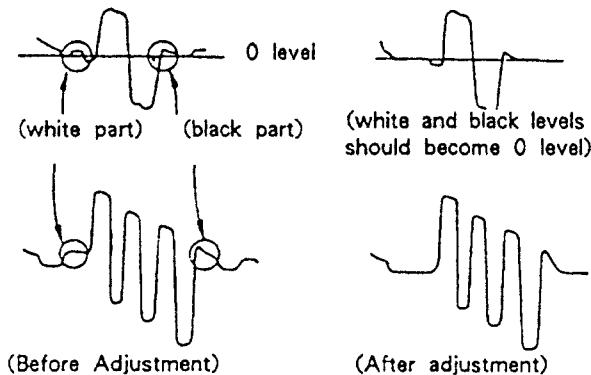
BELL FILTER ADJUSTMENT (L336)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q335.
3. Adjust L336 so that the waveform is flat.

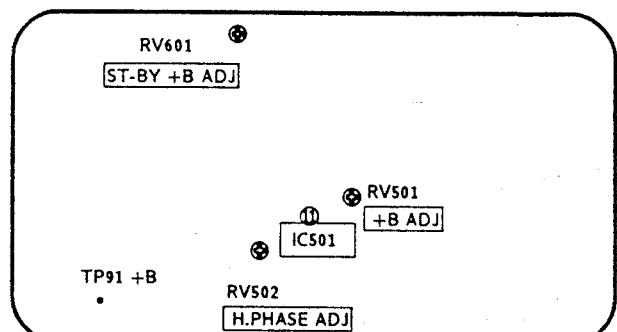


**DISCRIMINATION ADJUSTMENTS
(RV331 and L331)**

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC331.
3. Adjust RV331 until the white and black sections of the waveform at pin ① are at the 0 level. Connect the oscilloscope to pin ③ of IC331.
4. Adjust L331 until the white and black sections of the waveform at pin ③ are at the 0 level.



4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

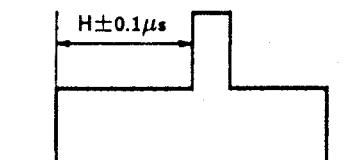
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain $135 \pm 0.2V$.

ST-BY +B ADJUSTMENT (RV601)

1. Put the system into \mathbb{O} standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain $135 \pm 3V$.
4. Take the system out of \mathbb{O} standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

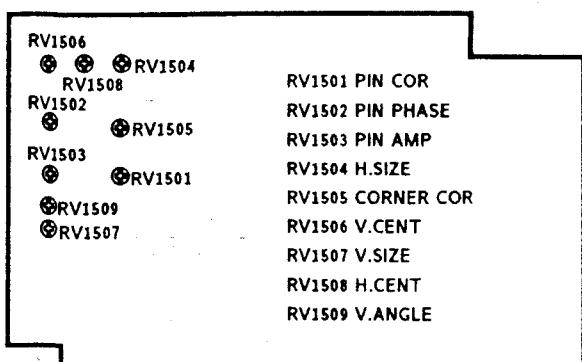
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to $H \pm 0.1\mu s$.



Standard of H. PHASE

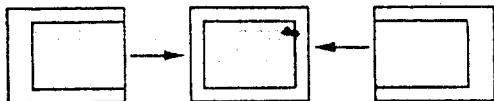
Model Size	H
21 "	$5.6\mu s$
25 "	$5.1\mu s$
29 "	$5.5\mu s$

4-4. J1 BOARD ADJUSTMENTS

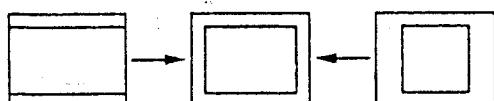


J1 BOARD (COMPONENT SIDE)

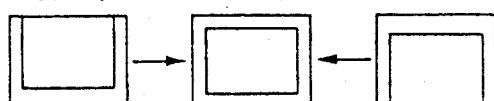
RV1508
H. CENT (HORIZONTAL CENTER)



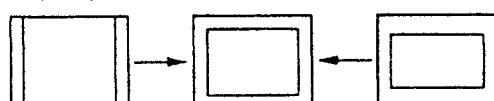
RV1504
H. SIZE (HORIZONTAL SIZE)



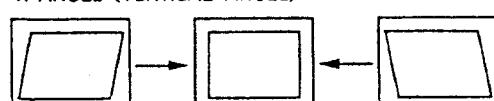
RV1506
V. CENT (VERTICAL CENTER)



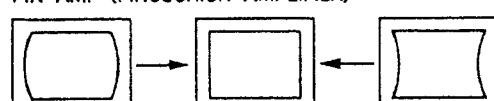
RV1507
V. SIZE (VERTICAL SIZE)



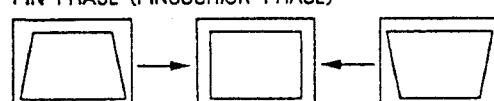
RV1509
V. ANGLE (VERTICAL ANGLE)



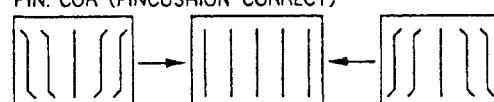
RV1503
PIN AMP (PIN CUSHION AMPLIFIER)



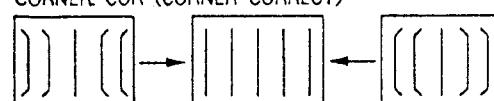
RV1502
PIN PHASE (PIN CUSHION PHASE)



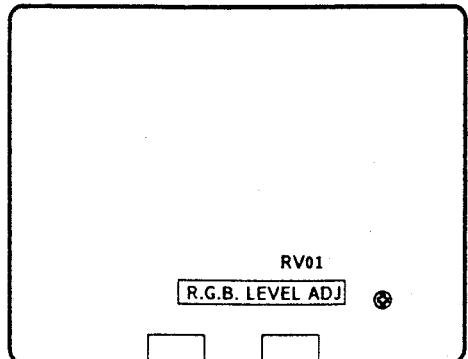
RV1501
PIN. COR (PIN CUSHION CORRECT)



RV1505
CORNER COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENT



RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

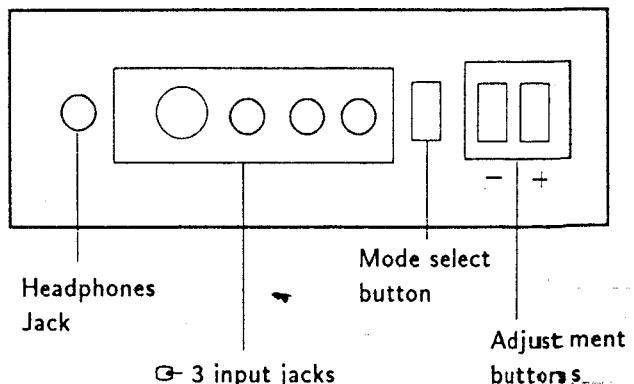
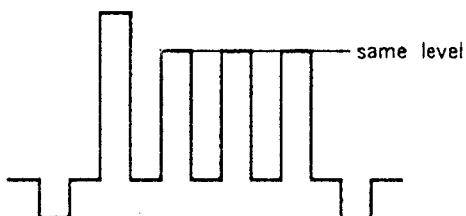
1. Set the system to receive a test pattern.
2. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons $+$ and $-$ simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the \odot contrast setting.
6. Adjust the \odot brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the \diamond (store) button of the remote commander.
(SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.
3. Set the \odot color to its normal state.
4. Steps are the same as above.
5. Since 20 IRE is nearly blue, adjust the \odot brightness control so that the blue barely glows.
6. Same as step 7 above.
7. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

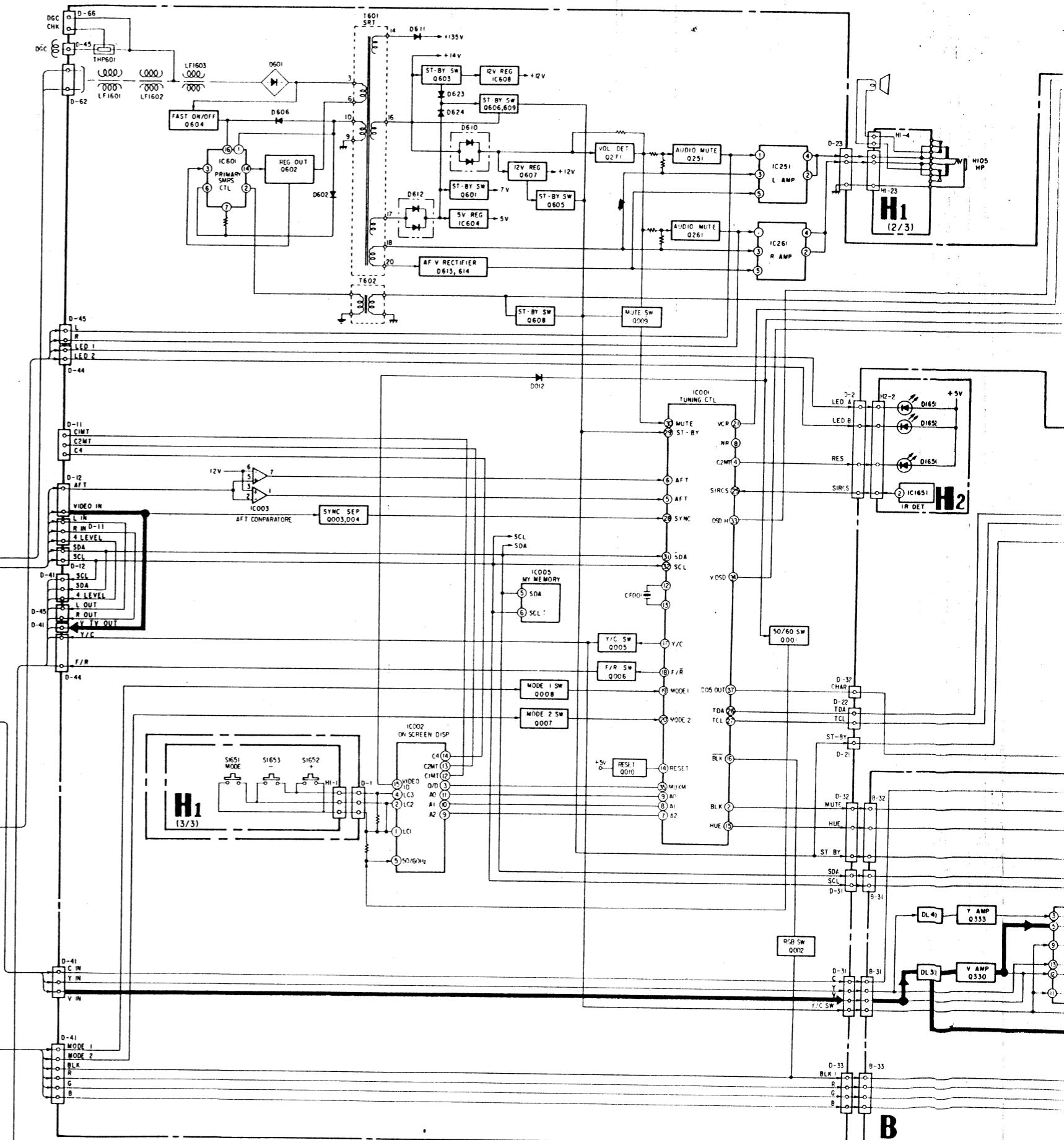
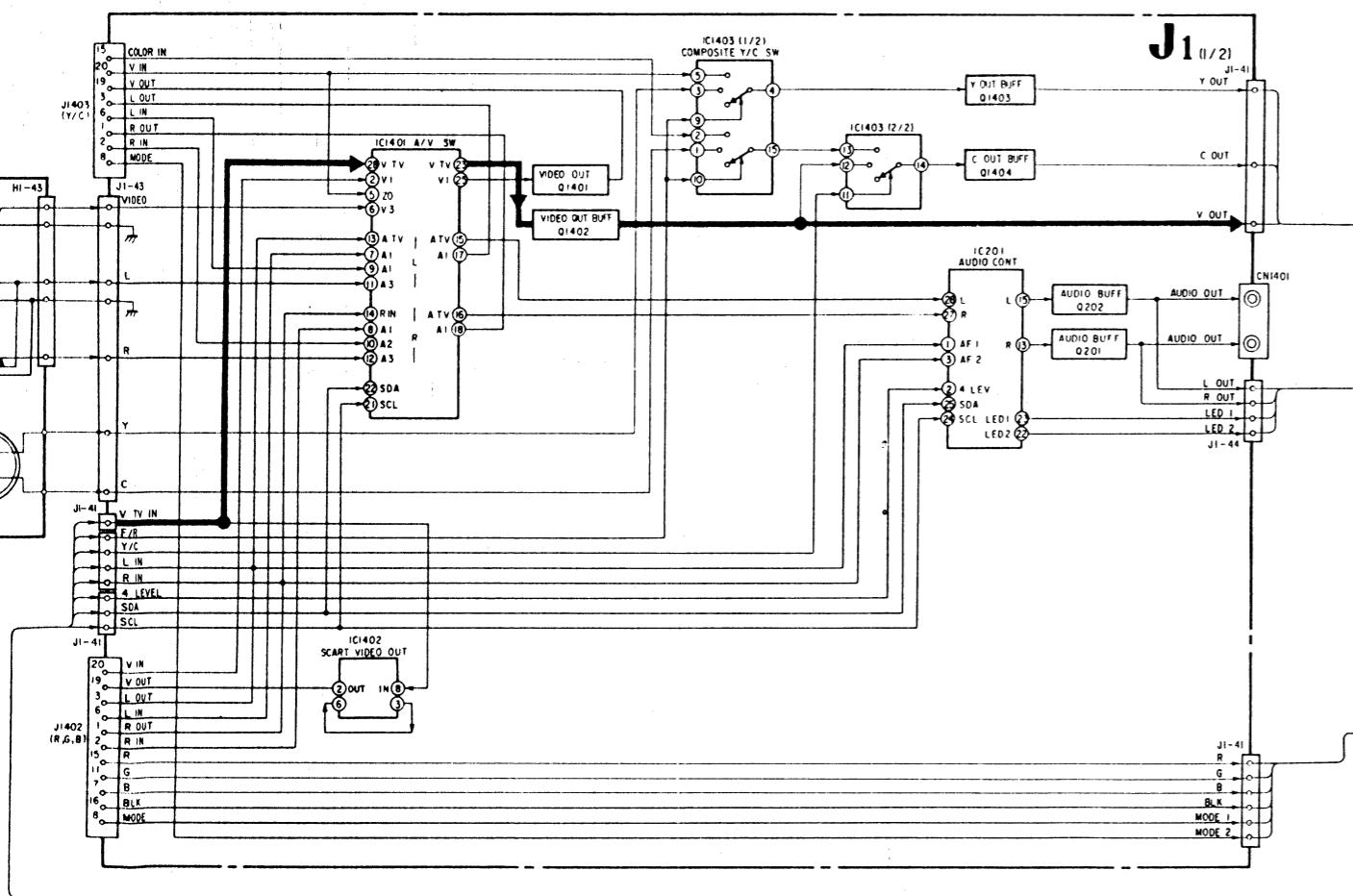
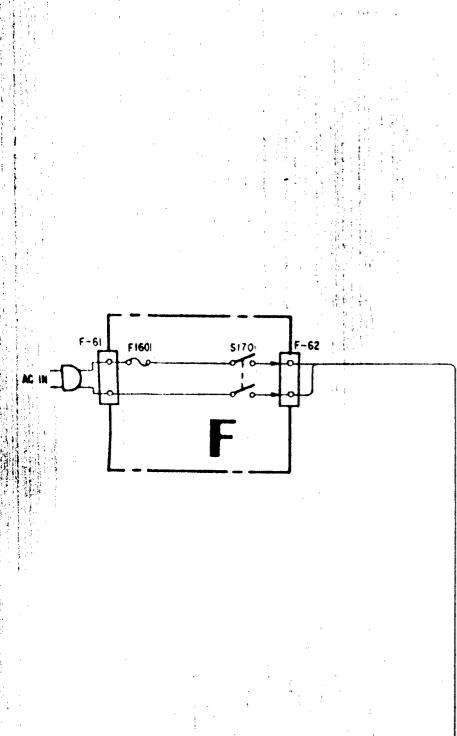
1. Set the system to receive color bars.
2. Press $\rightarrow \cdot \leftarrow$ on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons $+$ and $-$ simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the \diamond (store) button of the remote commander. (SUB mode is released)

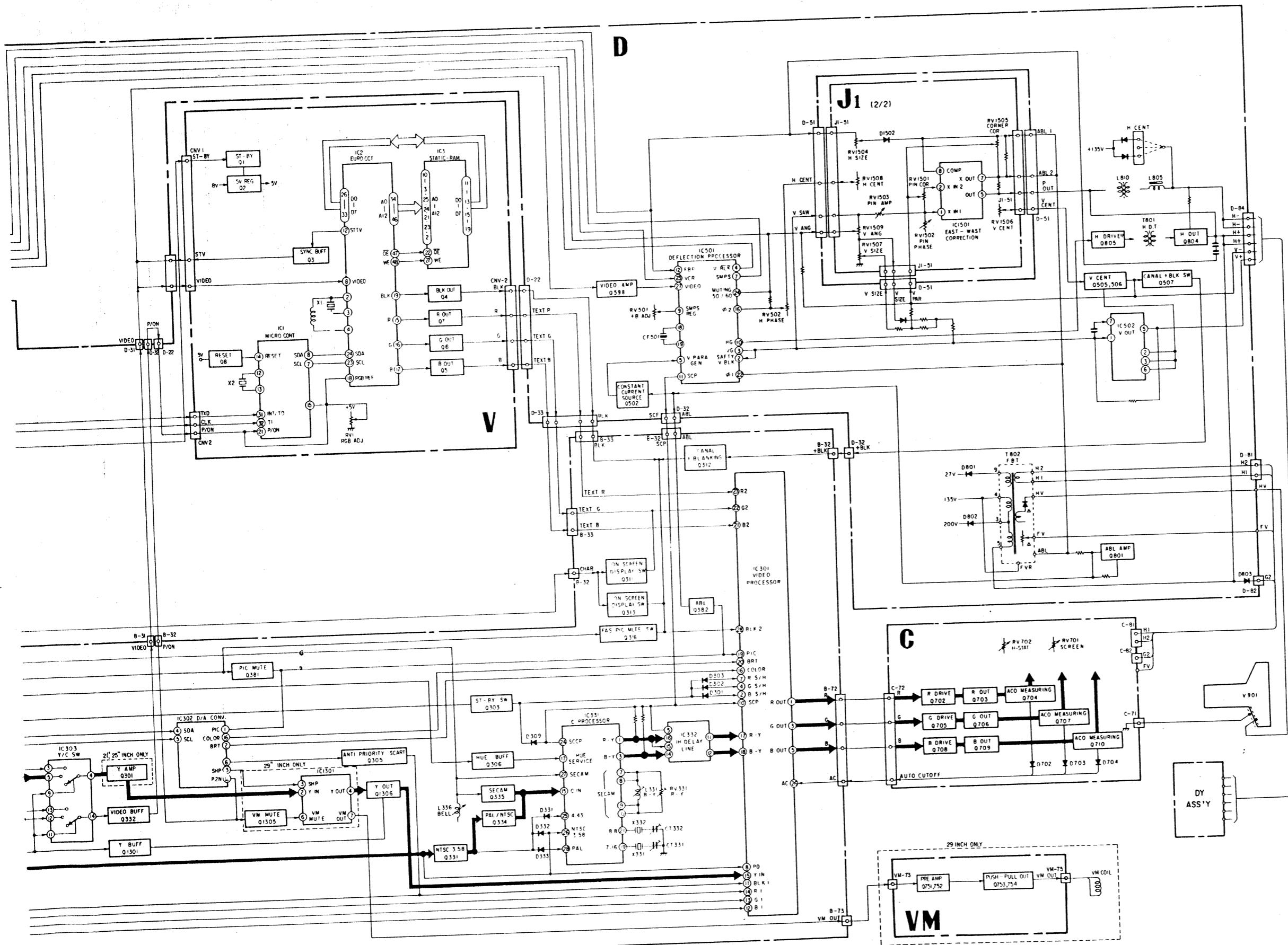


MEMO

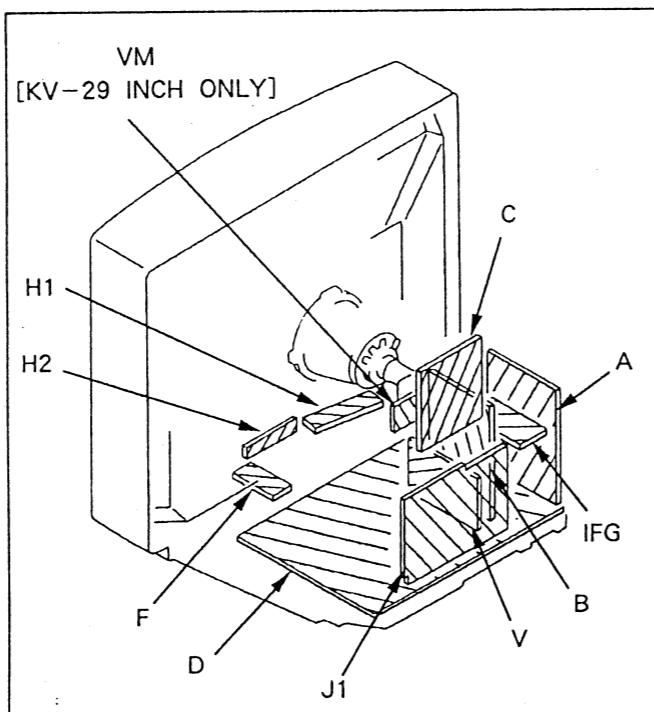
SECTION 5
DIAGRAMS

BLOCK DIAGRAM





5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μ F unless otherwise noted.
pF: $\mu\mu$ F 50W or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

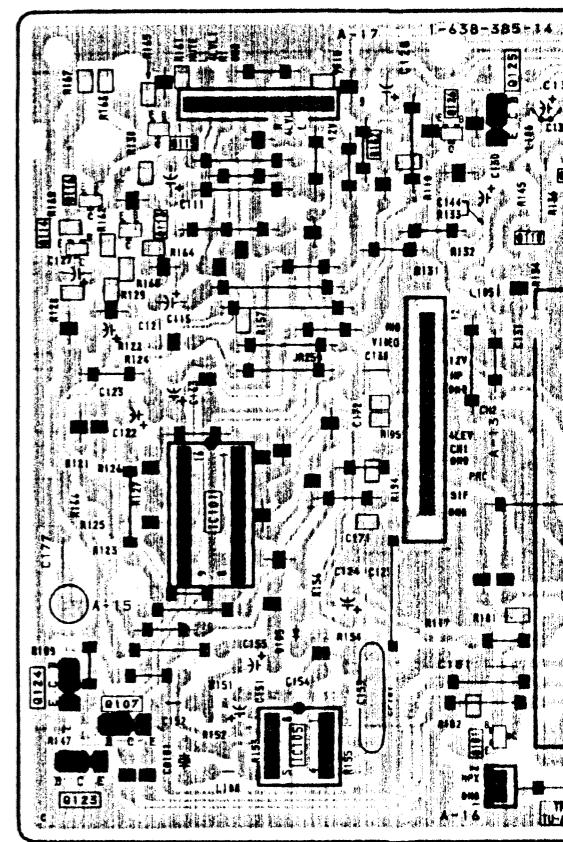
Pitch : 5mm
Rating electrical power : 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms.
 $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : signal path (RF)

Reference information

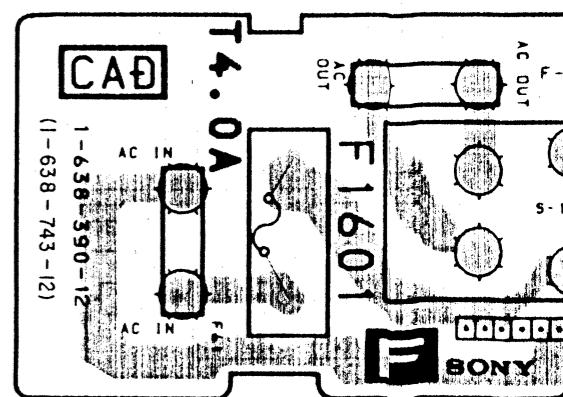
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

-A Board-



Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

-F Board-



A

[TUNER, SIF, VIF]

F

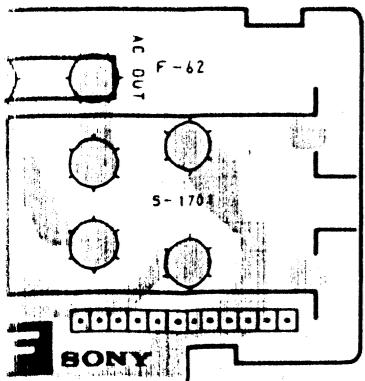
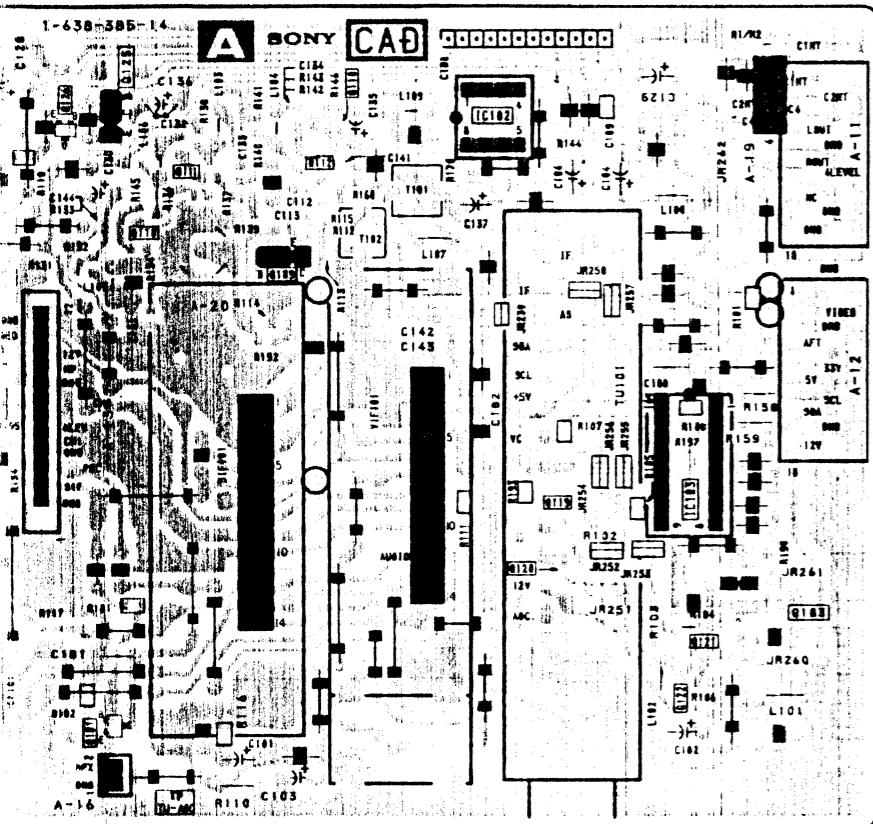
AC IN,
POWER SW

[AC IN,
POWER SW] **J1** [AUDIO CONTROL, AV INPUT,
Y/C INPUT, SCART VIDEO OUT,
EAST-WEST CORRECTION]

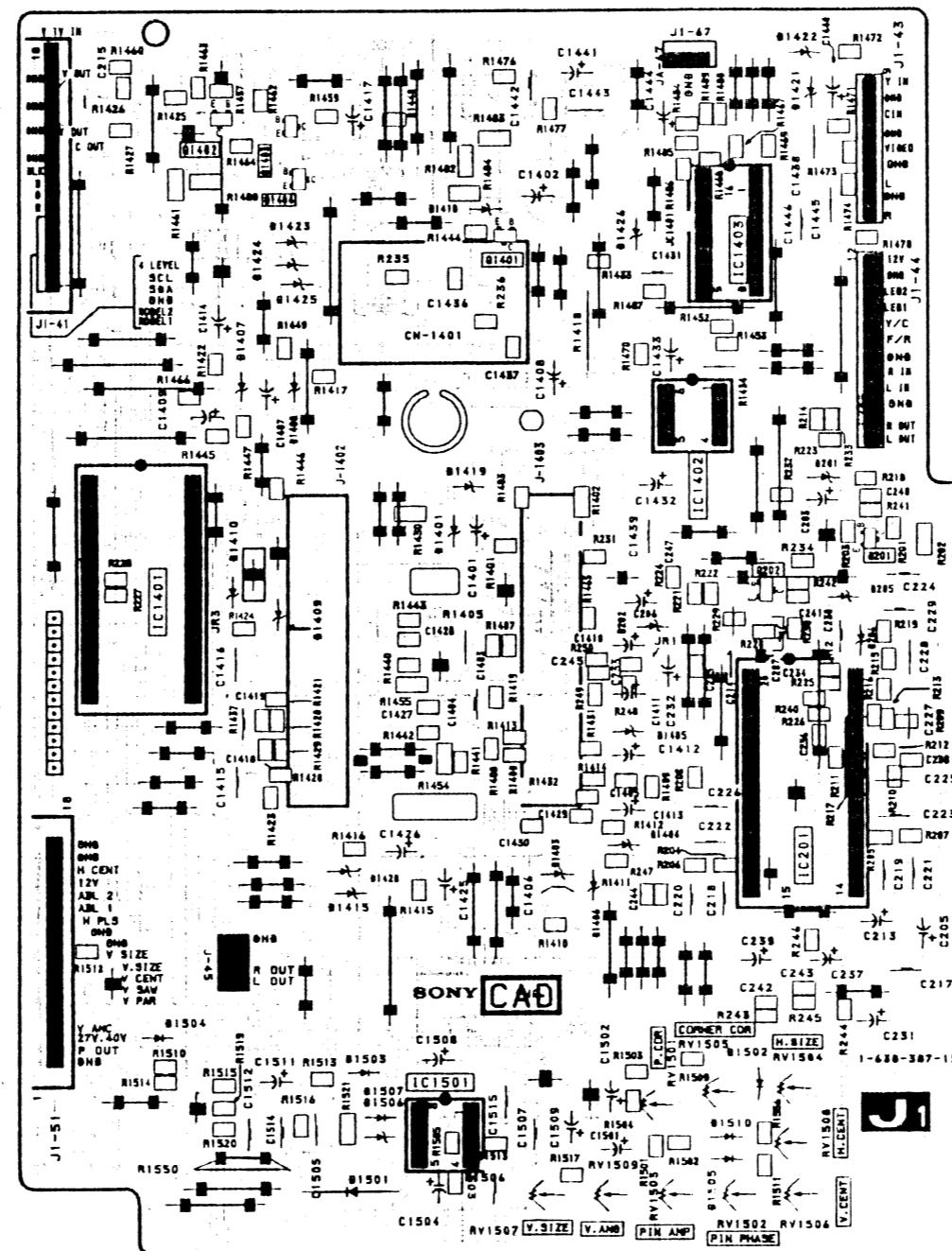
H1 CONTROL SW, AV INPUT
HEADPHONE

H2 [SIRCS, RECEIVER,
INDICATOR] **VM** [VM AMP]

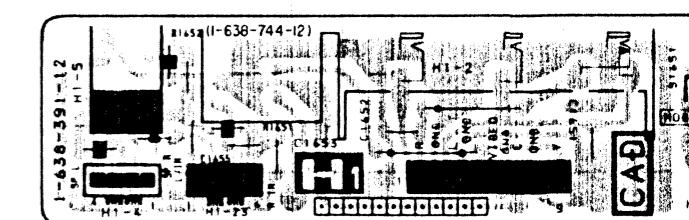
- J1 Board -



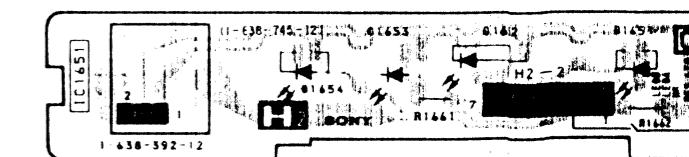
—VM Board— (29 INCH ONLY)



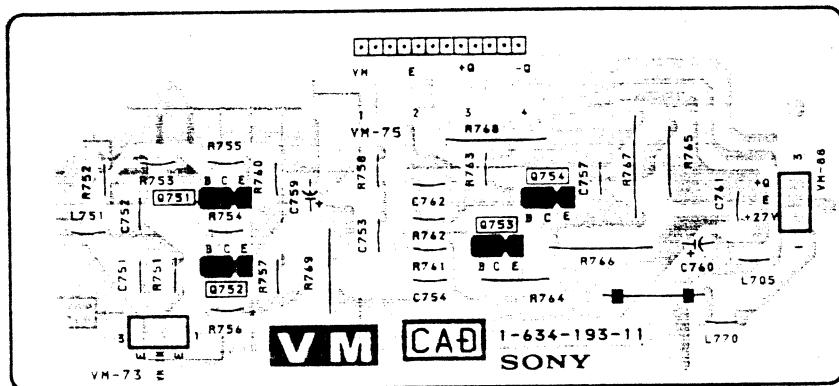
-H1 Board-



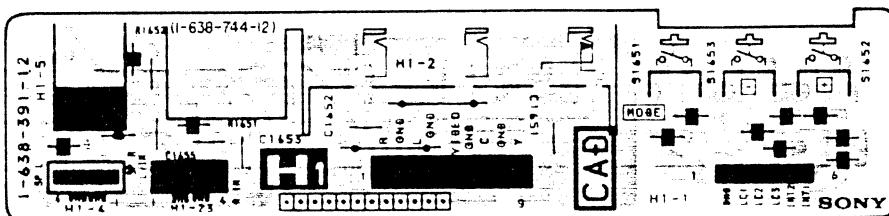
—H2 Board—



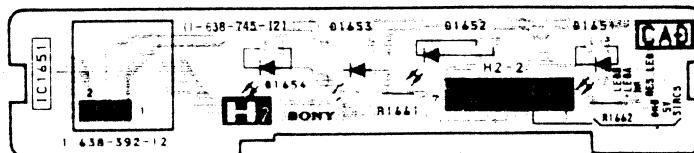
- VM Board - (29 INCH ONLY)

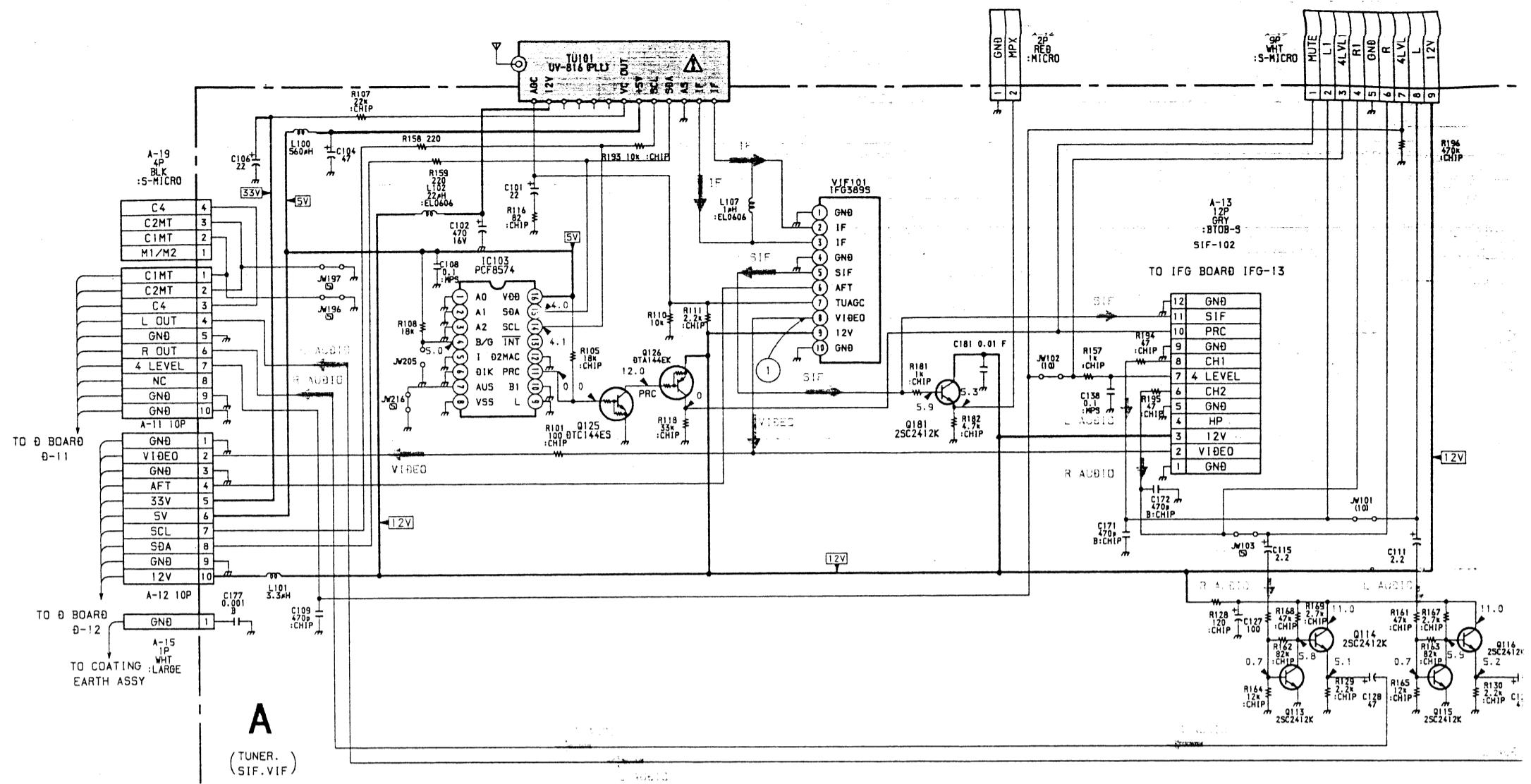


- H1 Board -

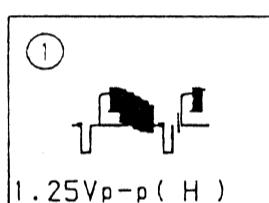


— H2 Board —





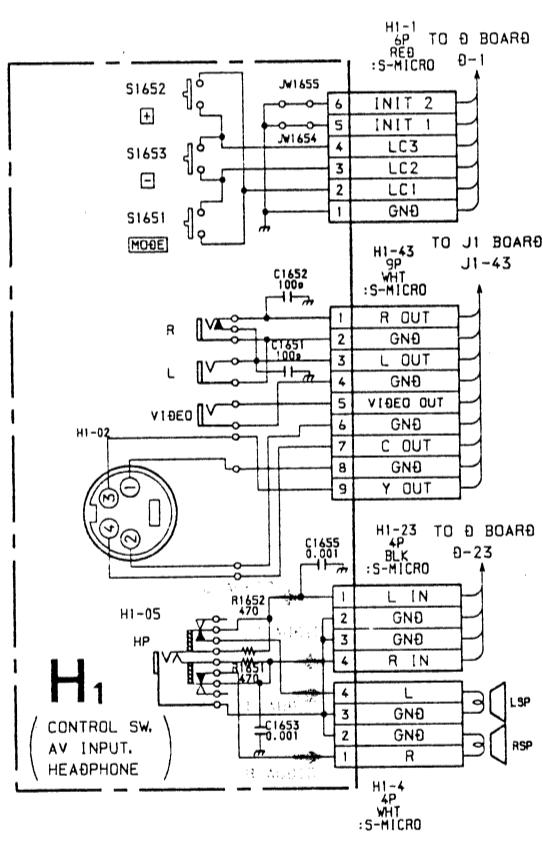
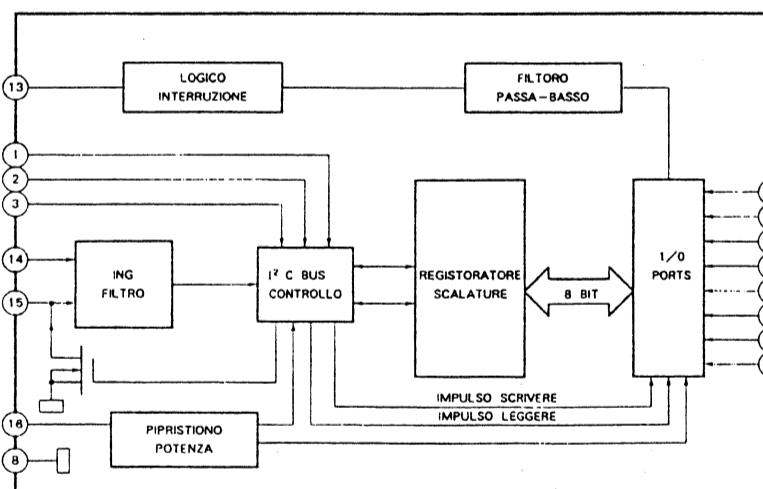
• WAVEFORMS A BOARD



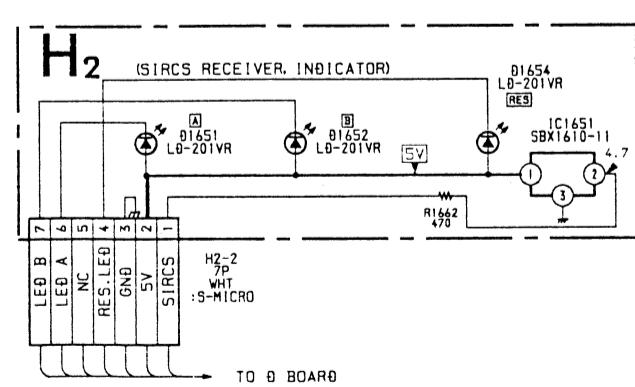
• A BOARD

IC103	PCF8574	EXPANDER
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC144ES	MUTE SW
Q126	DTA144EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER

A BOARD IC103 PCF8574



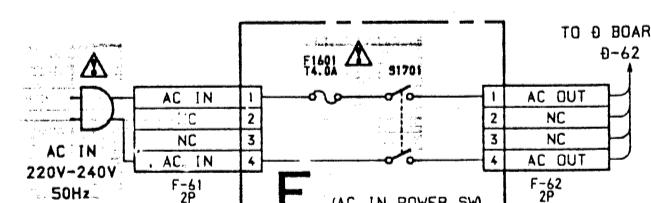
B-554114<AEP>-H1.



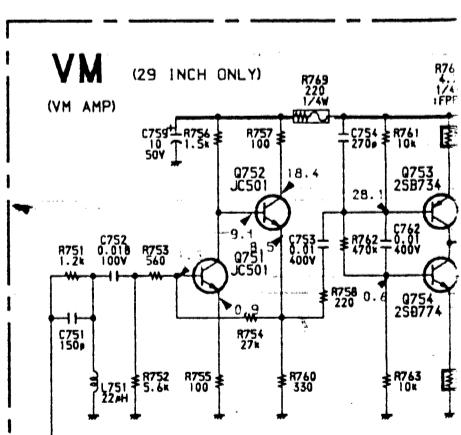
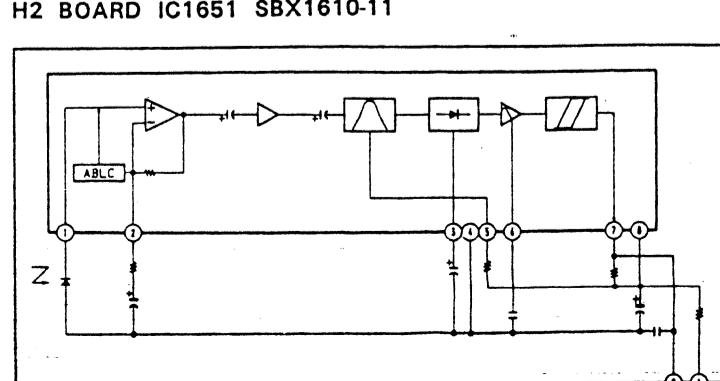
B-554114<AEP>-H2.

• H2 BOARD

IC1651	SBX1610-11	INFRARED RECIEVER
D1651	LD-201VR	AUDIO CHANNEL A INDICATOR
D1652	LD-201VR	AUDIO CHANNEL B INDICATOR
D1654	LD-201VR	RESET

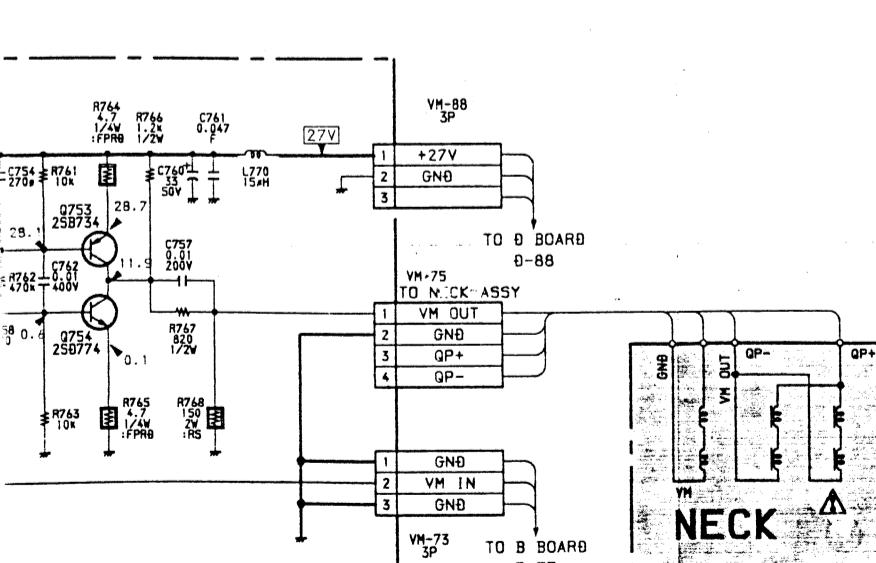
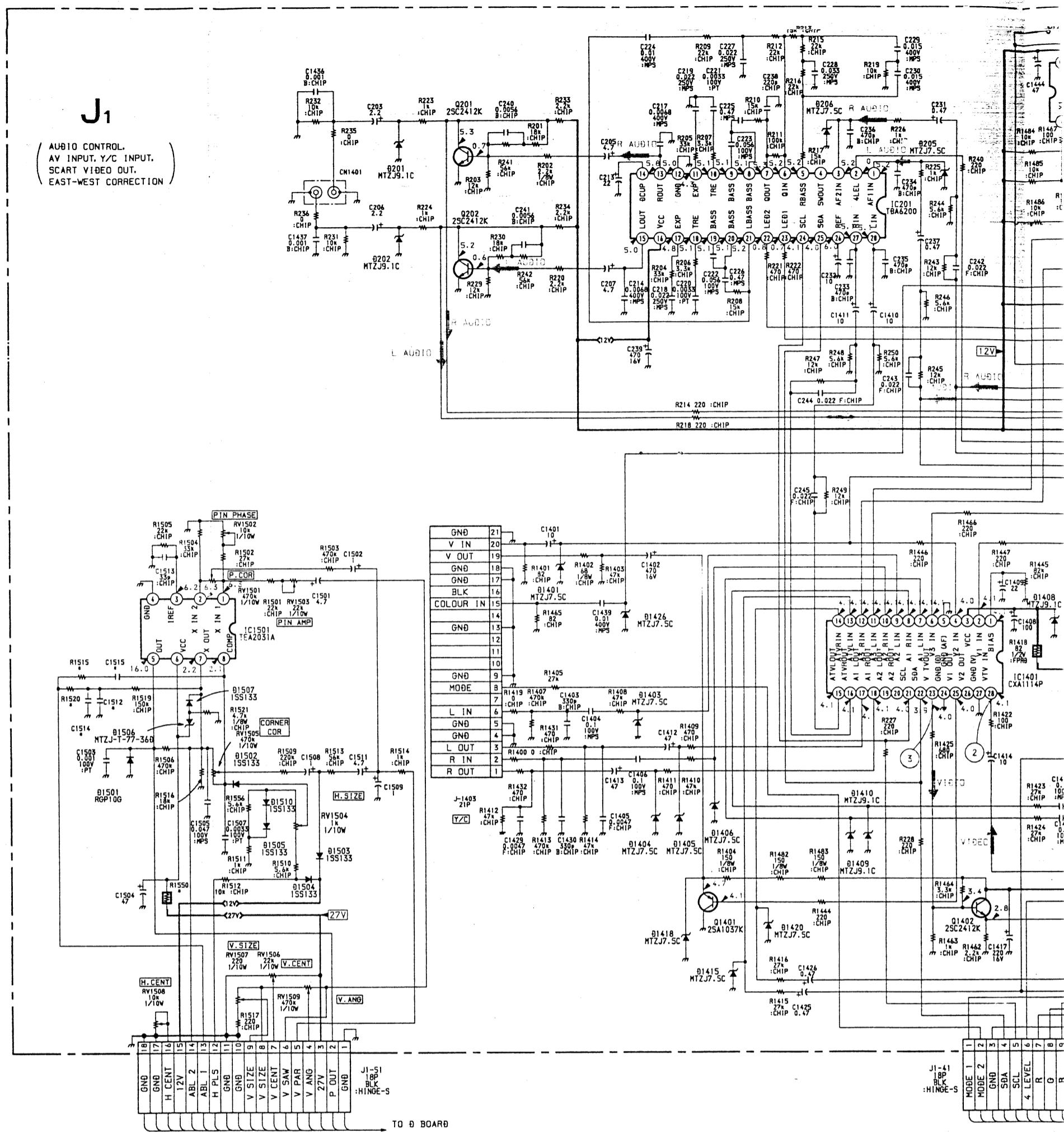


B-554114<AEP>-F..



• VM BOARD (29 INCH ONLY)

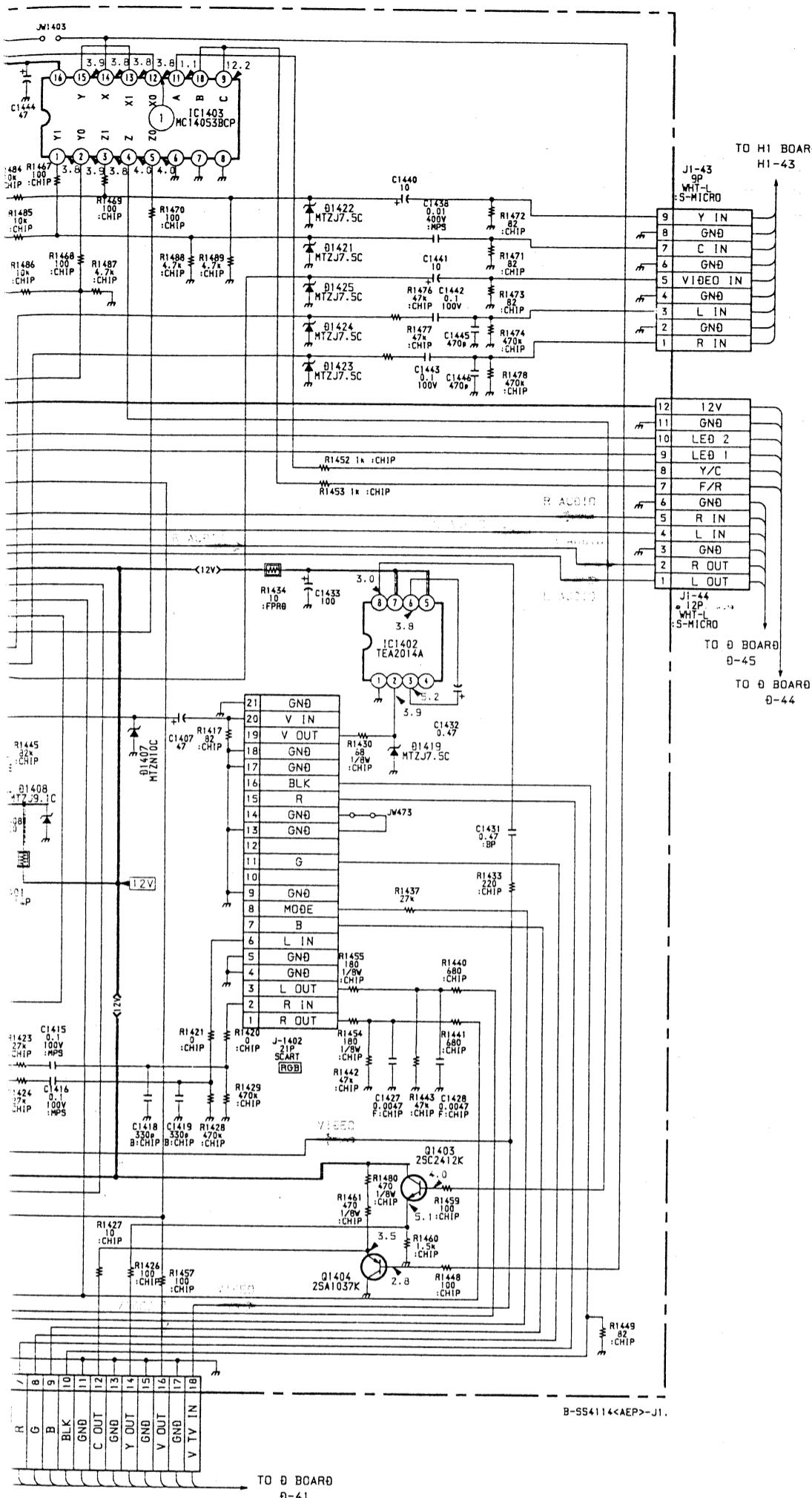
Q751	JC501	REF-AMP
Q752	JC501	REF-AMP
Q753	2SB734	PUSH-PULL OUT
Q754	2SD774	PUSH-PULL OUT



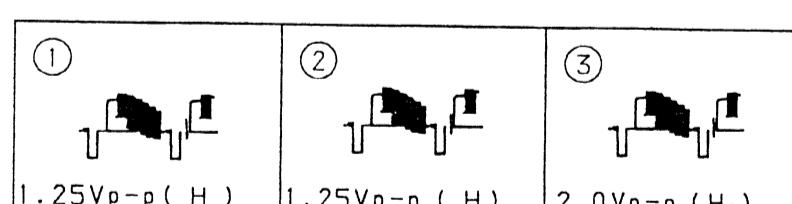
R-884114(AER)-VM

11 BOARD * MARK

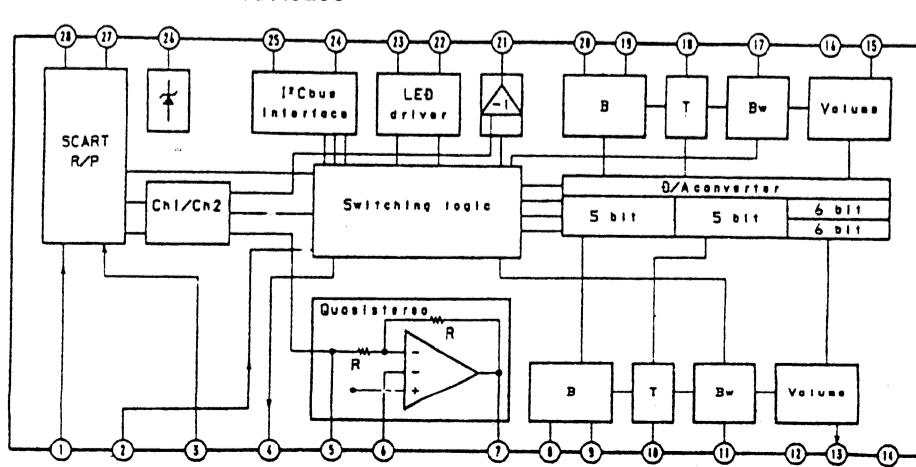
	21"	25"	29"
C1512	0.0068 400V	0.0068 400V	-
C1514	0.0022- 250V	0.0068 250V	-
C1515	820P	820P	-
R1515	680K	680K	-
R1520	470K	470K	390K
R1552	1M	1M	1M 5



• WAVEFORMS J1 BOARD



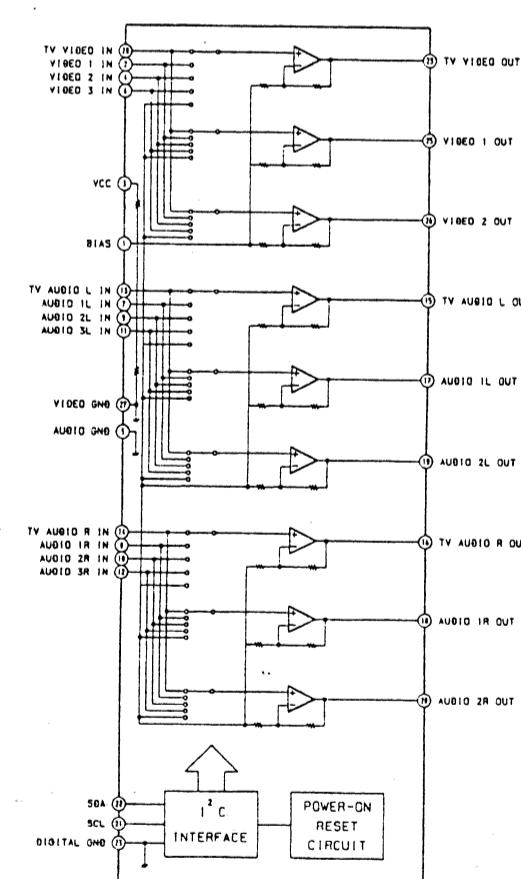
J1 BOARD IC201 TDA6200



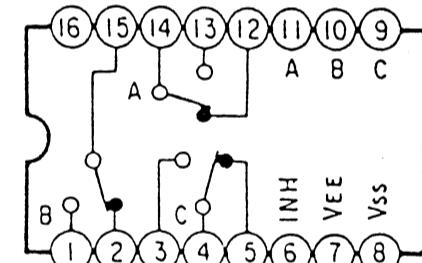
• J1 BOARD

IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC2412K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1037K	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	2SC2412K	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
D201	MTZJ9.1C	PROTECT
D202	MTZJ9.1C	PROTECT
D205	MTZJ7.5C	PROTECT
D206	MTZJ7.5C	PROTECT
D1401	MTZJ7.5C	PROTECT
D1403	MTZJ7.5C	PROTECT
D1404	MTZJ7.5C	PROTECT
D1405	MTZJ7.5C	PROTECT
D1406	MTZJ7.5C	PROTECT
D1407	MTZN10C	PROTECT
D1408	MTZJ9.1C	REG
D1409	MTZJ9.1C	PROTECT
D1410	MTZJ9.1C	PROTECT
D1415	MTZJ7.5C	PROTECT
D1418	MTZJ7.5C	PROTECT
D1419	MTZJ7.5C	PROTECT
D1420	MTZJ7.5C	PROTECT
D1421	MTZJ7.5C	PROTECT
D1422	MTZJ7.5C	PROTECT
D1423	MTZJ7.5C	PROTECT
D1424	MTZJ7.5C	PROTECT
D1425	MTZJ7.5C	PROTECT
D1426	MTZJ7.5C	PROTECT
D1501	RGP10G	PROTECT
D1502	ISS133	DECOUPLING H SIZE
D1503	ISS133	CLIPPING V PARABOLA
D1504	ISS133	CLIPPING H PULSE
D1505	ISS133	REG
D1506	MTZJ36D	PROTECT
D1507	ISS133	PROTECT
D1510	ISS133	REG

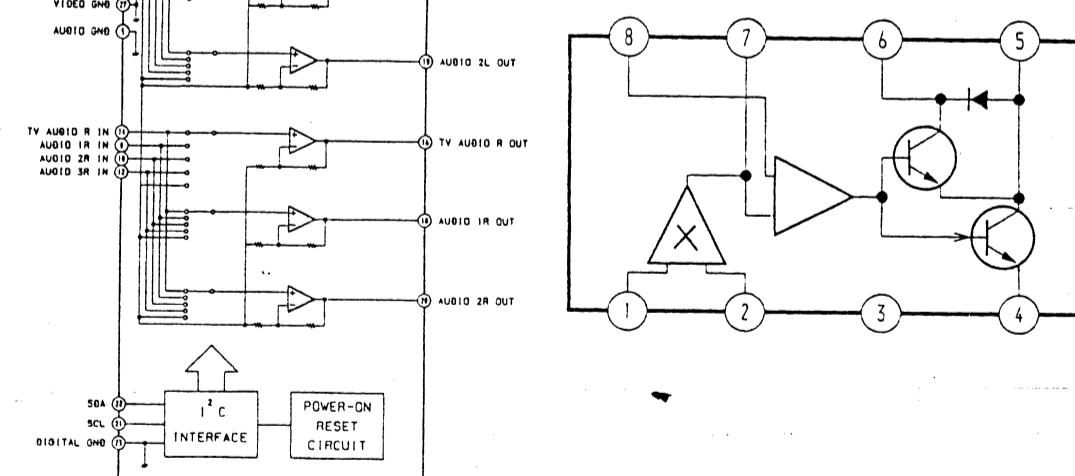
J1 BOARD IC1401 CXA1114P



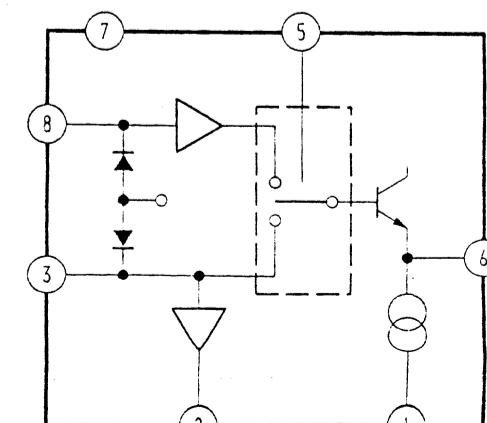
J1 BOARD IC1403 MC14053BCP



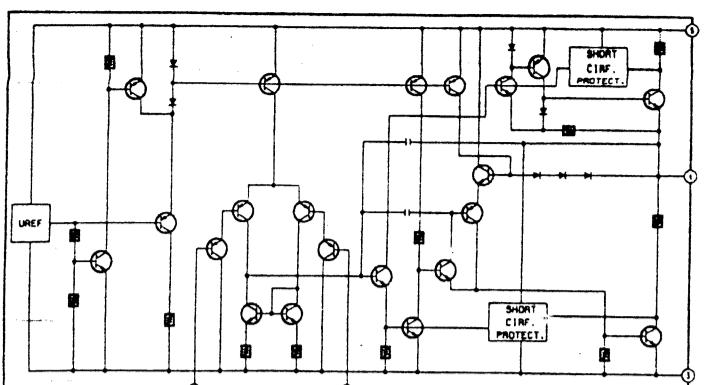
J1 BOARD IC1501 TEA2031A



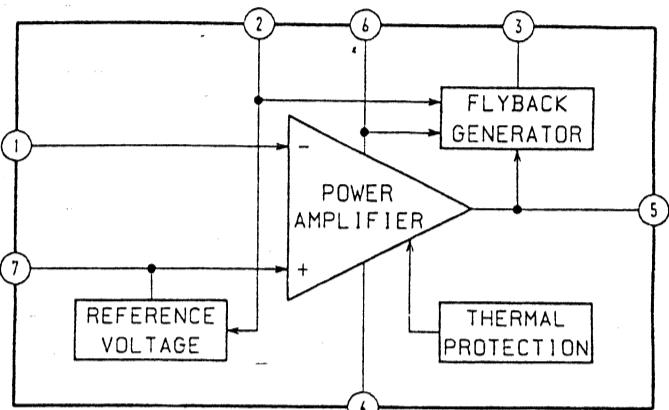
J1 BOARD IC1402 TEA2014A



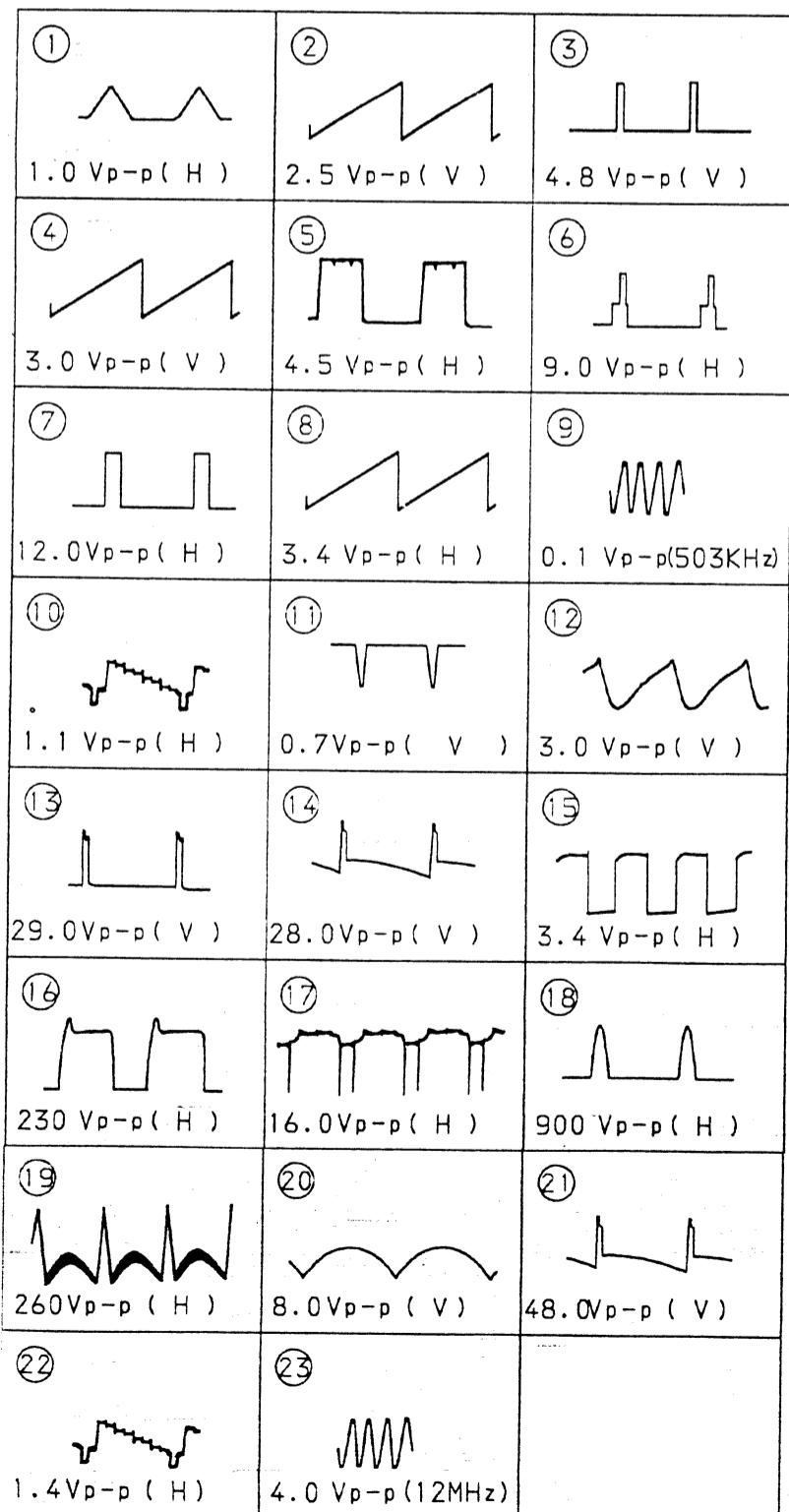
D BOARD IC251/261 TDA2050



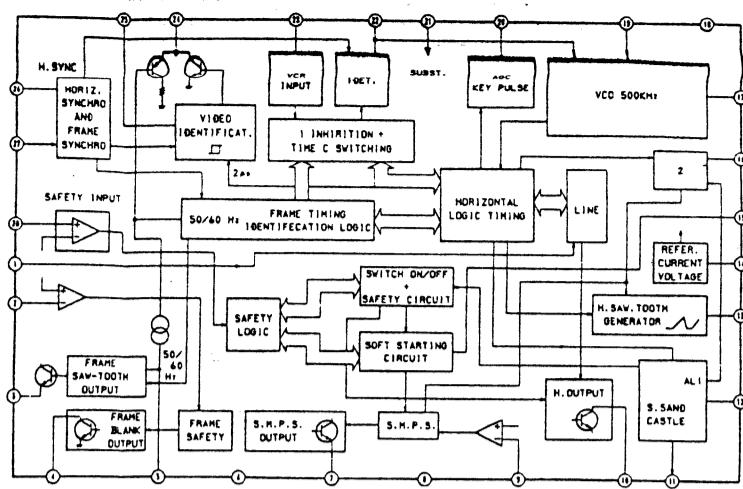
D BOARD IC502 TDA8170



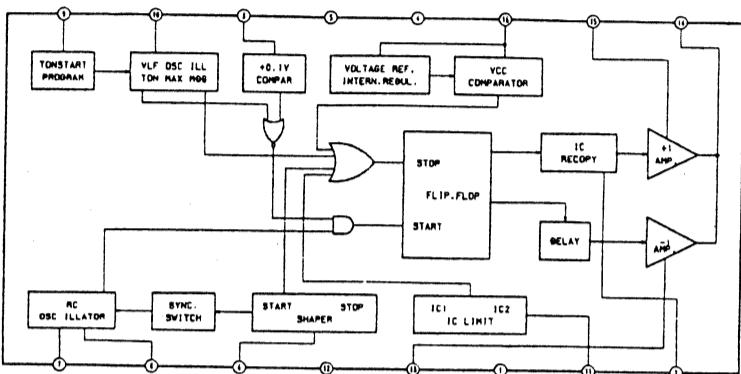
WAVEFORMS D BOARD



D BOARD IC501 TEA2028B



D BOARD IC601 TEA2260



D BOARD

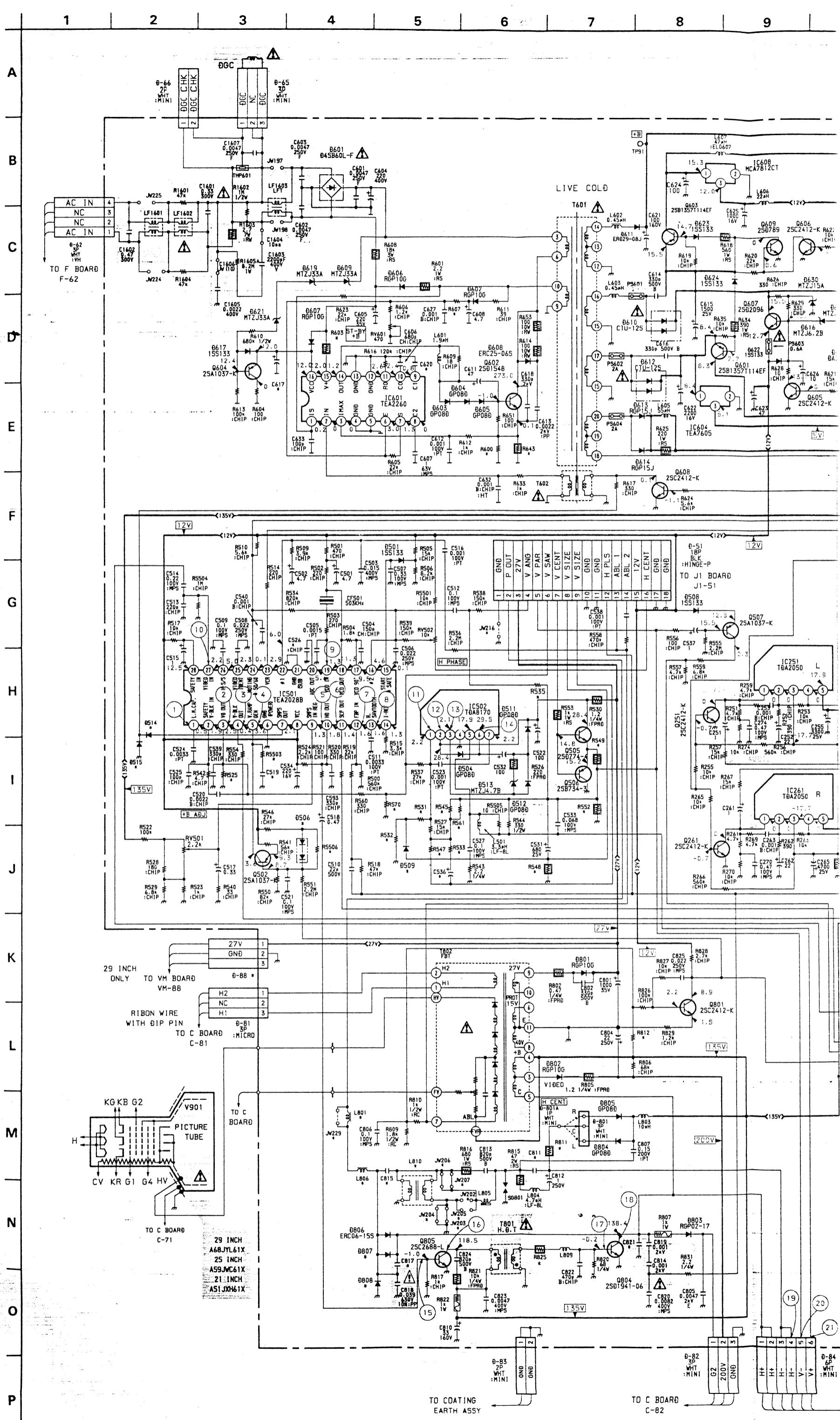
IC001	SDA20560-A012	TUNING
IC002	MC14051BCP	ON S
IC003	BA4558	AFT C
IC005	SDA2546	MY N
IC251	TDA2050	AUDIO
IC261	TDA2050	AUDIO
IC501	TEA2028B	DEFLE
IC502	TDA8170	V OUT
IC601	TEA2260	PRIM
IC604	TEA7605	+ 5V
IC608	MC7812CT	+ 12V
Q001	DTC144EK	50/60
Q002	DTC144EK	BLK S
Q003	2SA1037K	SYNC
Q004	2SA1037K	SYNC
Q005	DTC144EK	Y/C S
Q006	DTC144EK	FRONT
Q007	2SC2412K	MODE
Q008	2SC2412K	MODE
Q009	2SC2412K	MUTE
Q010	2SC2412K	RESET
Q251	2SC2412K	AUDIO
Q261	2SC2412K	AUDIO
Q271	2SC2412K	VOLTA
O502	2SA1037K	CONST
O505	2SD774-4	V CEN
O506	2SB734-3	V CEN
O507	2SA1037K	CANAL
O598	2SA1037K	VIDEO
O601	2SB1357T114EF	STBY S
O602	2SD1548	REG O
O603	2SB1357T114EF	STBY S
O604	2SA1037K	FAST C
O605	2SC2412K	STBY S
O606	2SC2412K	STBY S
O607	2SD2096	+ 12V
O608	2SC2412K	STBY S
O609	2SD789-3	STBY S
O801	2SC2412K	ABL AN
O804	2SD1941-06	H OUT
O805	2SC2688-L	H DRIVE
D001	MTZJ6.8C	PROTEC
D002	MTZJ6.8C	PROTEC
D003	1SS133	HUE CT
D005	MTZJ5.6B	PROT
D006	MTZJ33A	VC VOL
D007	MTZJ3.9B	PLOT F
D009	MTZJ5.6B	CLIPPIN
D010	MTZJ6.2B	PROT
D011	MTZJ6.2B	PROT
D012	1SS133	PROT
D013	MTZJ6.8C	PROT
D271	MTZJ13B	VOLTAG
D272	1SS133	DECOUPL
D501	1SS133	START
D504	GP08D	V PULS
D506	DA204K	CURREN
D508	1SS133	CANAL
D509	1SS133	V LIN (2)
D511	GP08D	PROT
D512	GP08D	PROT
D513	MTZJ4.7B	PROT
D514	1SS133	PROT (2)
D515	1SS133	PROT (2)
D601	D4SB60L-F	AC REC
D602	RGP10G	REF REC
D603	GP08D	SMPS D
D604	GP08D	SMPS D
D605	GP08D	SMPS D
D606	RGP10G	+ 12V R
D607	RGP10G	REF REC
D608	ERC25-06S	PLUSE C
D609	MTZJ33A	FAST ON
D610	CTU-12S	+ 14V R
D611	ERD29-08J	+ 135V R
D612	CTU-12S	+ 7V RE
D613	RGP15J	AF V RE
D614	RGP15J	AF V RE
D616	MTZJ6.2B	+ 12V R
D617	1SS133	PROT
D618	MTZJ5.6B	+ 12V R
D619	MTZJ33A	FAST ON
D620	DA204K	+ 12V R
D621	MTZJ33A	FAST ON
D622	1SS133	PROT
D623	1SS133	DECOUPL
D624	1SS133	DECOUPL
D630	MTZJ15A	+ 12V RE
D801	RGP10G	+ 27V RE
D802	RGP10G	+ 200V F
D803	RGPO2-17	G2 RECT
D804	GP08D	H CENTER
D805	GP08D	H CENTER
D806	ERC06-15S	H DAMPE
D807	ERC06-15S	H DAMPE
D808	ERD28-08S	PIN DAMP
D808	ERD29-08J	PIN DAMP

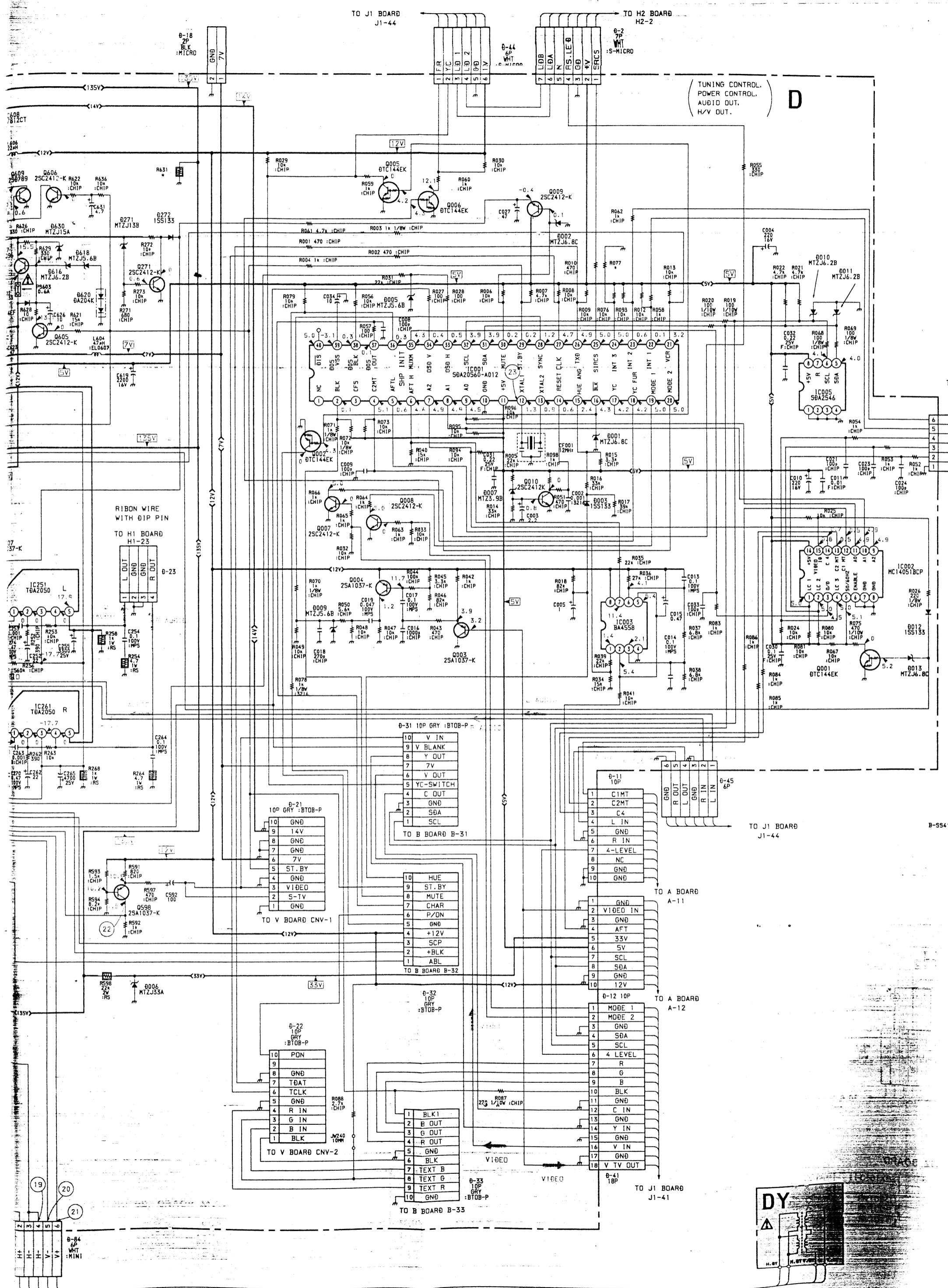
D BOARD * MARK

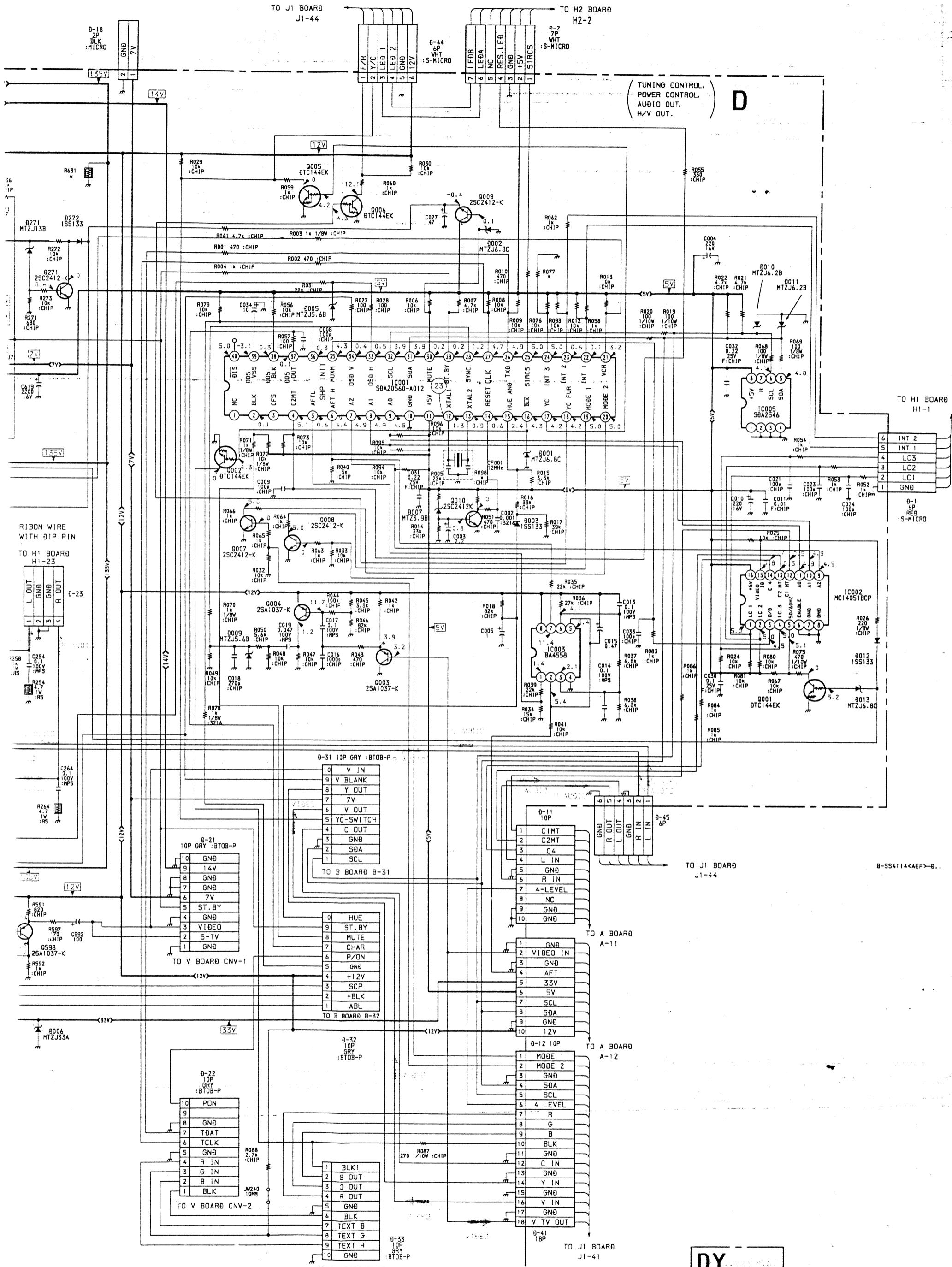
	21 "	25 "	29 "		21 "	25 "	29 "
C519	0.47	0.47	0.33	L806	DRAM CORE (CDI)	HCC DUST CORE 3.9mH	
C526	27P	27P	22P		WITH CORE	PMC	PMT
C536	4.7 16V	10 16V	10 16V	L810			
C617	220 25V	100 50V	100 50V	R077	1K	—	1K
C620	1 63V	0.47 50V	0.47 50V	R525	1K	1K	—
C811	1 200V	2 200V	2 200V	R531	—	120K	120K
C815	1 200V	1 200V	0.82 200V	R532	—	1K	1K
C817	0.0106 1.4KV	0.015 1.4KV	0.017 1.4KV	R533	180	0	0
C821	680P 2KV	680P 2KV	470P 2KV	R535	4.7M	2.2M	2.2M
D-88	—	—	3P	R545	39K	22K	22K
				R547	5.6K	3.3K	3.3K
D506	DA204K	DA204K	—	R548	1.2 1W F	1 1W F	1 1W F
D509	—	1SS133	1SS133	R549	470 2W F	390 2W F	390 2W F
D514	5mm JW	5mm JW	1SS133	R552	1.2K 1W	—	—
D515	—	—	1SS133	R561	—	—	270K
D807	—	ERC26-15S	ERC06-15S	R570	—	—	680
D808	ERD28-08S	ERD29-08J	ERD29-08J	R600	—	1	1
				R603	15 3W F	12 3W F	12 3W F
JW202	—	—	5mm	R607	4.7K	4.7K	5.6K
JW203	5mm	5mm	—	R631	27K 2W	27K 2W	—
JW204	5mm	5mm	—	R643	0.15 2W F	0.12 2W F	0.12 2W F
JW205	—	—	5mm	R811	100 1W	22 2W F	22 2W F
JW206	5mm	5mm	—	R812	75K 1/2W	68K 1/2W	51K 1/2W
JW207	5mm	5mm	—	R825	1 1W F	0.47 1W F	0.47 1W F
JW216	15mm	15mm	—	R5503	4.7	4.7	10
JW229	10mm	10mm	—	R5506	—	—	12K
L801	—	—	3.9mH				

- : NOT MOUNTED

JING CTL	
SCREEN DISPLAY	
COMPARATOR	
MEMORY	
DIO OUT (L)	
DIO OUT (R)	
LECTION PROCESSOR	
UT	
MARY SMRS CTL	
REG	
2V REG	
60Hz SW	
SW	
IC SEPARATOR	
IC SEPARATOR	
C SW	
INT/REAR SW	
DE 2 SW	
DE 1 SW	
TE SW	
DET	
DIO MUTE	
DO MUTE	
STAGE DETECT	
INSTANT CURRENT SOURCE	
ENT	
ENT	
JAL + BLK	
EO AMP	
BY SW	
OUT	
BY SW	
ST ON/OFF	
BY SW	
BY SW	
2V REG	
BY SW	
BY SW	
AMP	
OUT	
DRIVER	
TECT	
TECT	
CTL	
WT	
VOLTAGE REGULATION	
T RESET	
PPING SYNC LEVEL	
T	
T	
T	
T	
STAGE DETECT	
COUPLING MUTE AUDIO	
RT	
ULSE OUT	
RENT (21/25 INCH ONLY)	
JAL + BLK LEVEL	
IN (25/29 INCH ONLY)	
T	
T	
T (29 INCH ONLY)	
T (29 INCH ONLY)	
RECT	
RECT	
S DRIVE 1	
S DRIVE 2	
S DRIVE 3	
V RECT	
RECT	
SE CLIPPER	
T ON/OFF	
V RECT	
5V RECT	
RECT	
/ RECT 1	
/ RECT 2	
V REG	
T	
V REF	
T ON/OFF 2	
V REF	
T ON/OFF 3	
T	
DUPLING STBY	
DUPLING STBY	
V RECT	
V RECT	
10V RECT	
RECT	
ENTER 1	
ENTER 2	
AMPER 1	
AMPER 2 (25/29 INCH ONLY)	
DAMPER (21 INCH ONLY)	
DAMPER (25/29 INCH ONLY)	



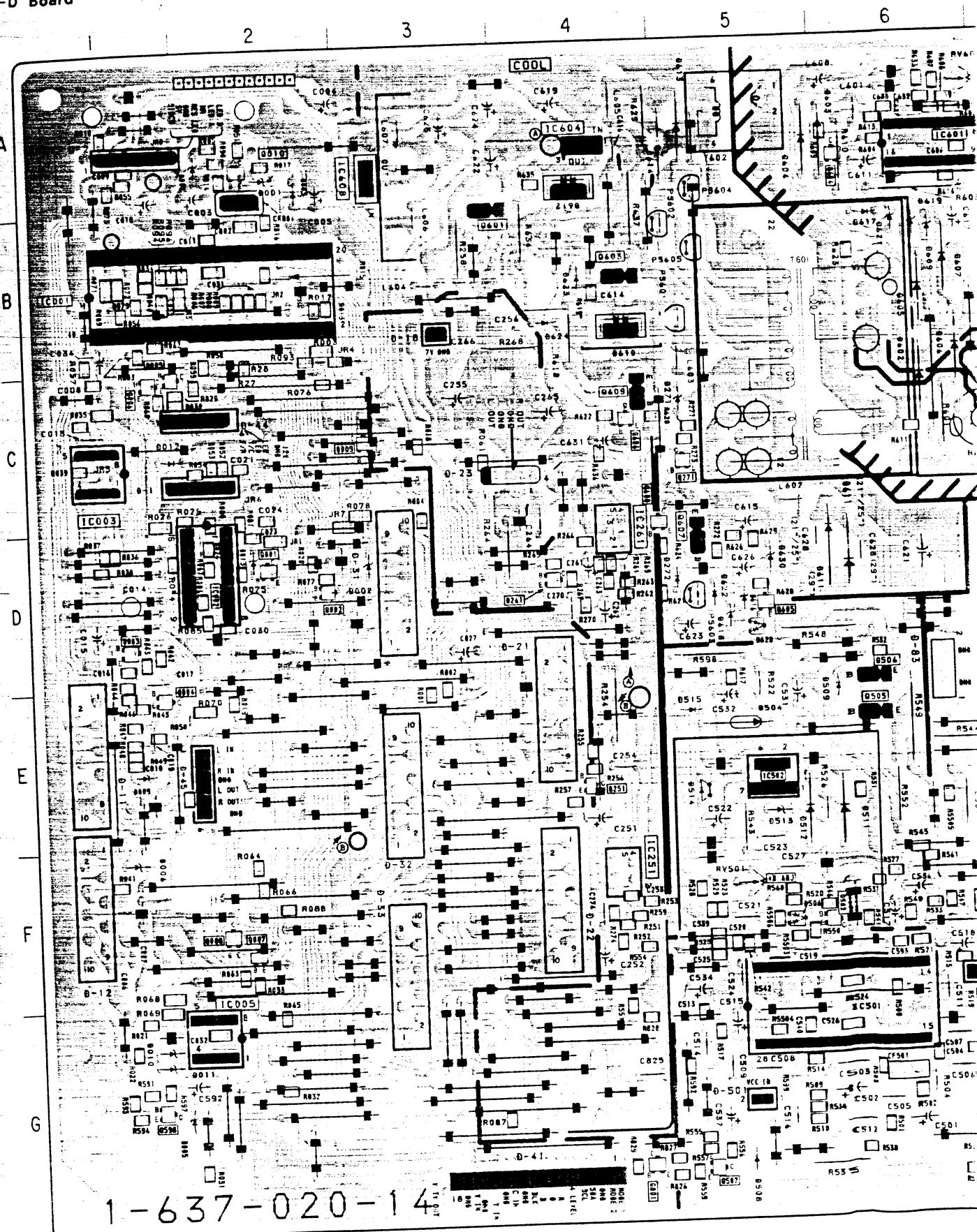


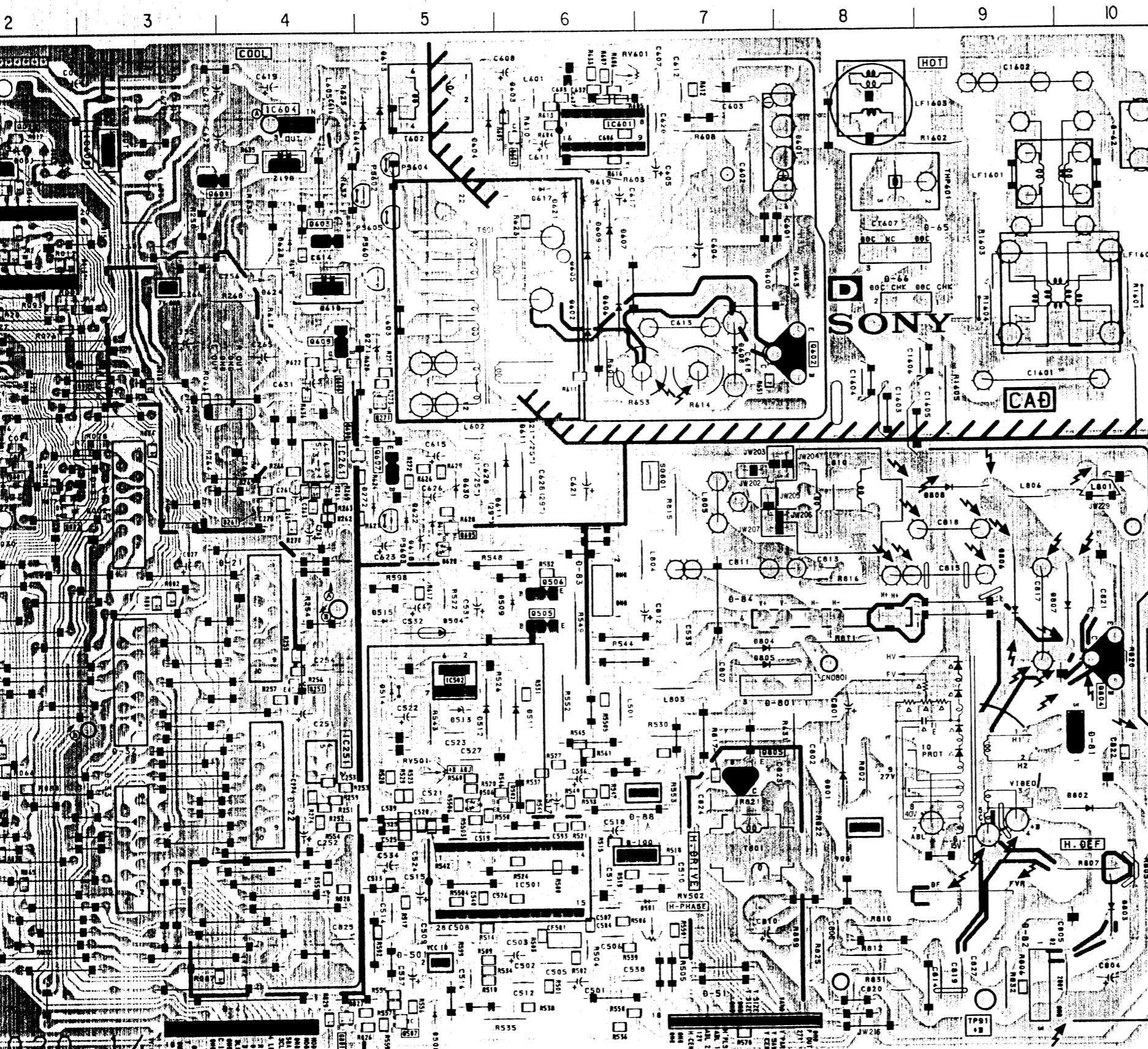


D

TUNING CONTROL, POWER CONTROL,
AUDIO OUT, H/V OUT

-D Board-



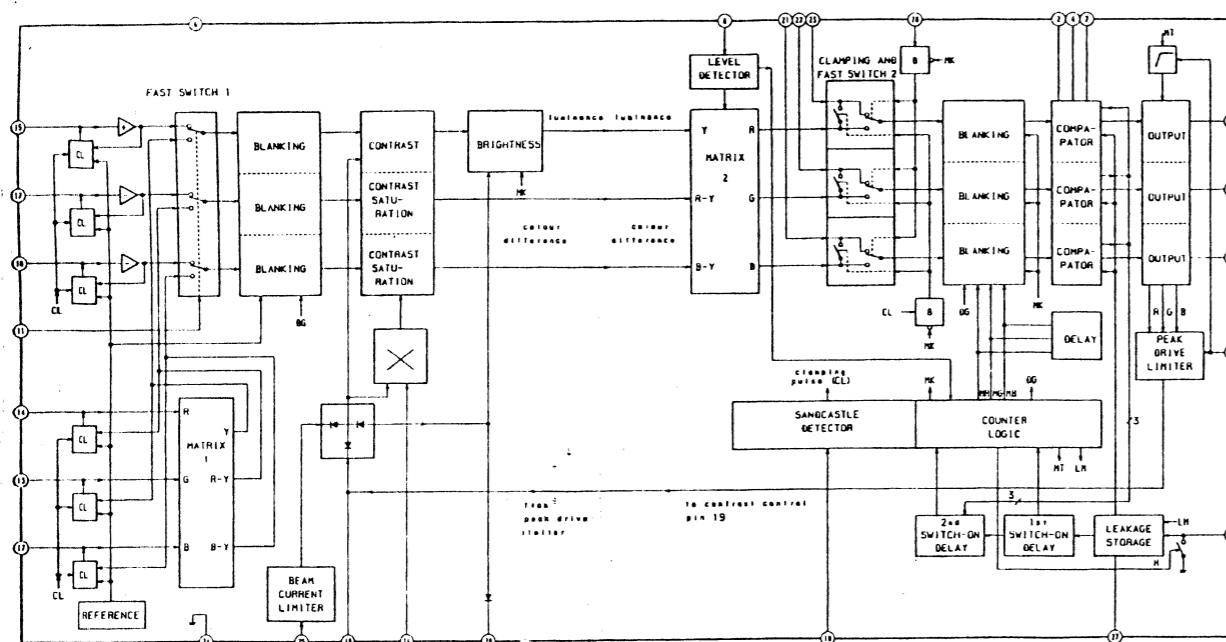
JUNING CONTROL, POWER CONTROL,
AUDIO OUT, H/V OUT

IC	D012	C - 1
IC001	D013	D - 2
IC002	D271	C - 5
IC003	D272	D - 5
IC005	D501	G - 7
IC251	D504	E - 5
IC501	D506	F - 5
IC502	D508	G - 5
IC601	D511	F - 5
IC604	D512	E - 6
IC608	D513	E - 5
	D514	E - 5
	D515	E - 5
	D601	A - 8
	D602	C - 6
	D603	A - 5
	D604	A - 4
	D605	B - 6
	D606	B - 6
	D607	B - 6
	D608	C - 7
	D609	B - 6
	D610	B - 4
	D611	D - 6
	D612	A - 4
	D613	A - 5
	D614	A - 5
	D616	D - 5
	D617	B - 6
	D618	D - 5
	D619	B - 6
	D620	D - 5
	D621	B - 6
	D622	D - 5
	Q001	C - 2
	Q002	C - 2
	Q003	D - 1
	Q004	D - 4
	Q005	C - 1
	Q006	C - 1
	Q007	F - 2
	Q008	F - 2
	Q009	C - 3
	Q010	A - 2
	Q251	E - 4
	Q271	C - 5
	Q502	F - 5
	Q505	E - 6
	Q506	D - 6
	Q507	G - 4
	Q598	G - 1
	Q601	B - 3
	Q602	C - 8
	Q603	B - 4
	Q604	A - 6
	Q605	D - 5
	Q606	C - 4
	Q607	D - 5
	Q608	C - 4
	Q609	C - 4
	Q801	G - 4
	Q804	E - 10
	Q805	F - 7
TRANSISTOR	RV501	F - 5
	RV502	G - 7
	RV601	A - 6
VARIABLE RESISTOR	TP	
	TP91	G - 9
DIODE	D001	A - 2
	D002	D - 3
	D003	A - 2
	D005	G - 1
	D006	F - 1
	D007	A - 2
	D009	E - 1
	D010	G - 1
	D011	G - 1

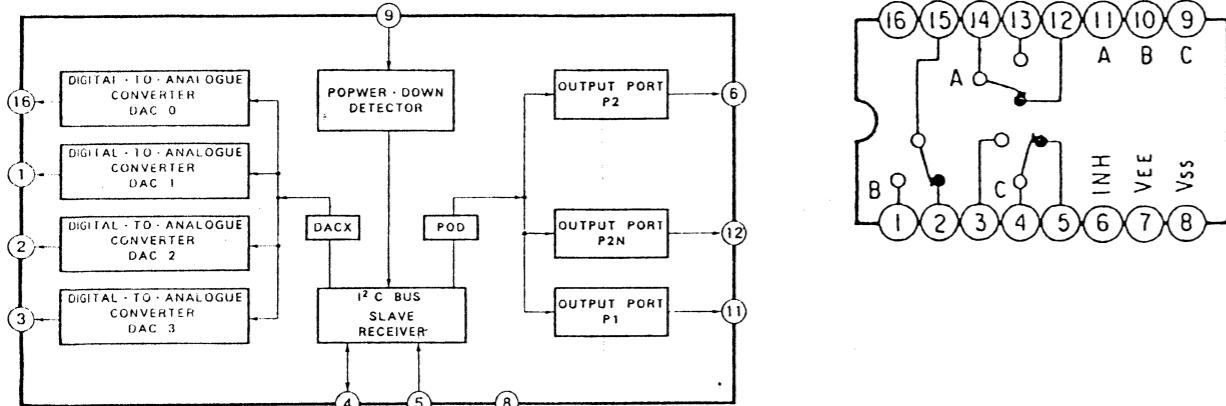
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

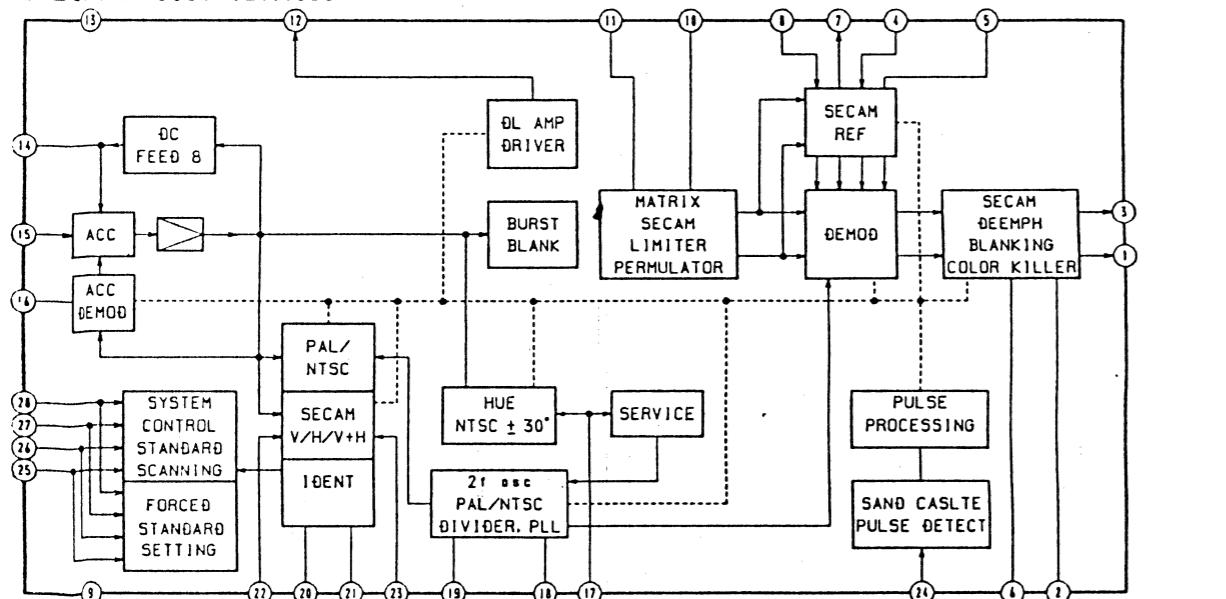
B BOARD IC301 TDA4580-V7



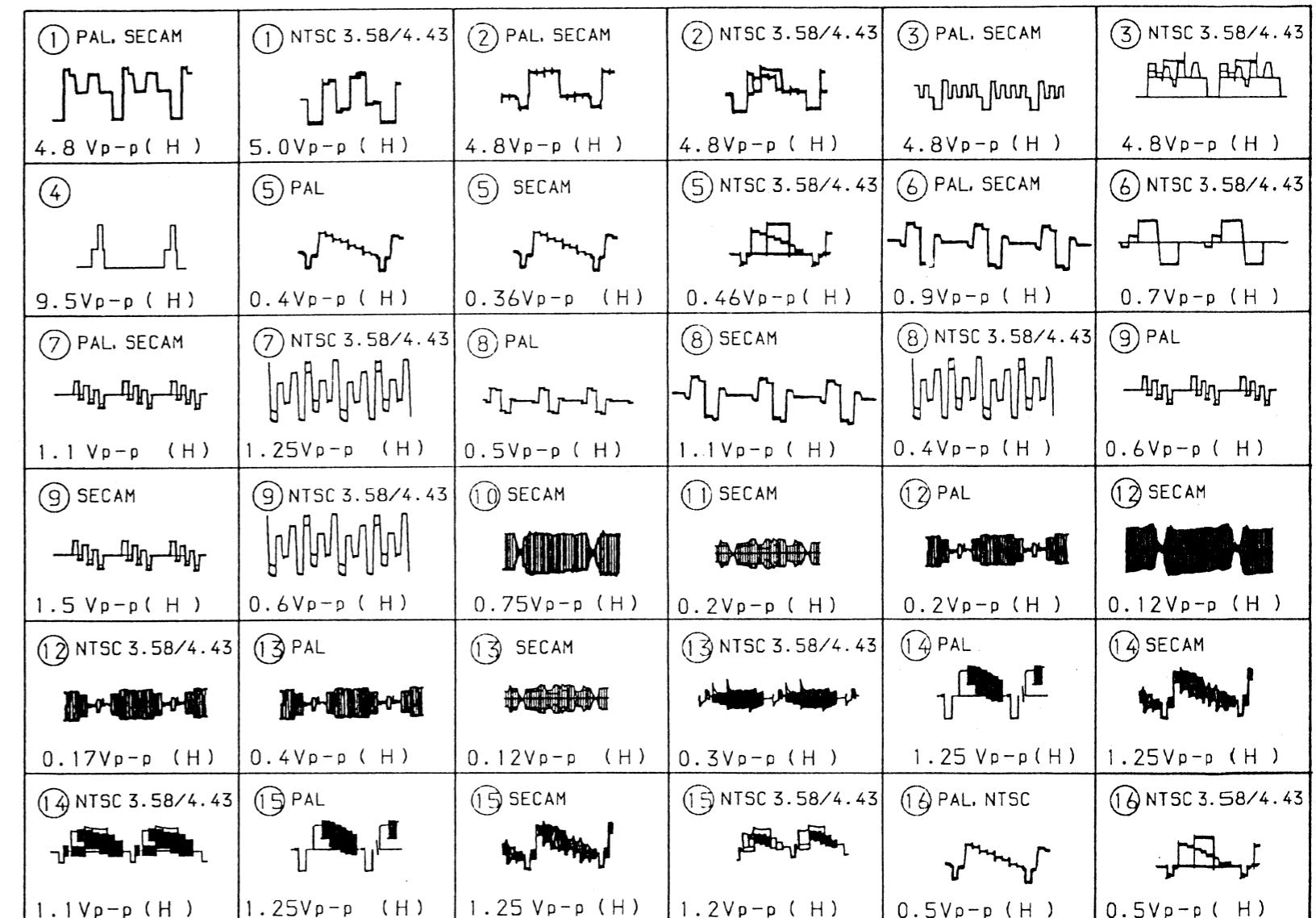
B BOARD IC302 TDA8442-N3



B BOARD IC331 TDA4650



WAVEFORMS B BOARD



As to the voltage value shown by the mark \diamond on the Schematic Diagram, see the another list.

	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC301	0.1 6.7	0.1 6.8	5.8 5.1	0.1 6.5
IC331	3.1 5.0 5.6 7.5 0.1 0.1 0.1 5.9	3.6 3.5 5.6 7.0 0.1 0.1 5.8 0.1	3.1 2.9 7.1 5.6 0.1 0.1 5.8 0.1	2.8 2.7 7.2 5.6 0.1 0.1 5.8 0.1
Q331	0.1 (C) 0.3	0.1 0.4	5.8 0	0.1 0.8
Q333	4.4	4.4	4.4	4.4
Q334	4.9	0.1	4.8	4.8
Q335	0.1	4.8	0.1	0.1

• B BOARD

IC301	TDA4580-V7	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER I ² C BUS
IC303	MC14053BCP	Y/C COMP SW
IC331	TDA4650	COLOR PROCESSOR
IC332	TDA4660-V2	1H-DEALY
IC1301	HIC2110	SHARPNESS CONTROL (29 INCH ONLY)
Q301	2SC2412K	Y AMP (21/25 INCH ONLY)
Q303	2SC2412K	STBY SW
Q305	DTA144EK	ANTI PRIORITY SCART
Q306	JC501	VIDEO BUF (HUE)
Q311	2SC2412K	ON SCREEN DISPLAY SW
Q312	2SC2412K	CANRL + BLK
Q313	2SC2412K	ON SCREEN DISPLAY
Q316	2SC2412K	FAS PICTURE MUTE SW
Q330	2SA1037K	VIDEO AMP
Q331	DTC124EK	NTSC SW
Q332	2SA1037K	VIDEO BUFF
Q333	2SA1037K	Y AMP
Q334	2SC2412K	PAL/NTSC SW
Q335	2SC2412K	SECAM SW
Q381	DTC124EK	MUTE
Q382	2SC2412K	ABL
Q1301	DTC124EK	Y BUFF
Q1305	2SC2412K	Y OUT (29 INCH ONLY)
Q1306	2SC2412K	Y OUT
D301	ISS133	ACO AT STBY
D302	ISS133	ACO AT STBY
D303	ISS133	ACO AT STBY
D304	ISS133	DECOUPLING BLK
D305	ISS133	PROT
D307	MTZ11C	PROT
D309	ISS133	PROT
D310	MTZ11C	PROT
D311	MTZ11C	PROT
D312	MTZ11C	PROT
D313	ISS133	PROT
D314	ISS133	PROT
D315	ISS133	PROT
D316	ISS133	PROT
D317	ISS133	PROT
D318	ISS133	PROT
D319	ISS133	PROT
D320	ISS133	PROT
D331	ISS133	SECAM SW
D332	ISS133	SECAM SW
D333	ISS133	SECAM SW
D350	MTZJ5.6C	PROT

• B BOARD * MARK

	21 "	25 "	29 "
B-73	-	-	3P
C321	100P	100P	-
C386	-	-	4.7 50V
C1311	56P	56P	33P
IC1301	-	-	HIC2110
JR387	-	-	0 : CHIP
JR390	0 : CHIP	0 : CHIP	-
L303	5.6 μ H	5.6 μ H	-
Q301	2SC2412K	2SC2412K	-
Q1305	-	-	2SC2412K
R306	-	-	0 : CHIP
R349	680	680	-
R350	680	680	-
R351	220	680	-
R357	-	-	220
R377	330	330	1.8K
R382	270K	220K	220K
R386	-	-	3.3K
R390	220	220	100
R1302	-	-	47K
R1303	-	-	47K
R1304	-	-	100K
R1308	0	0	4.7K

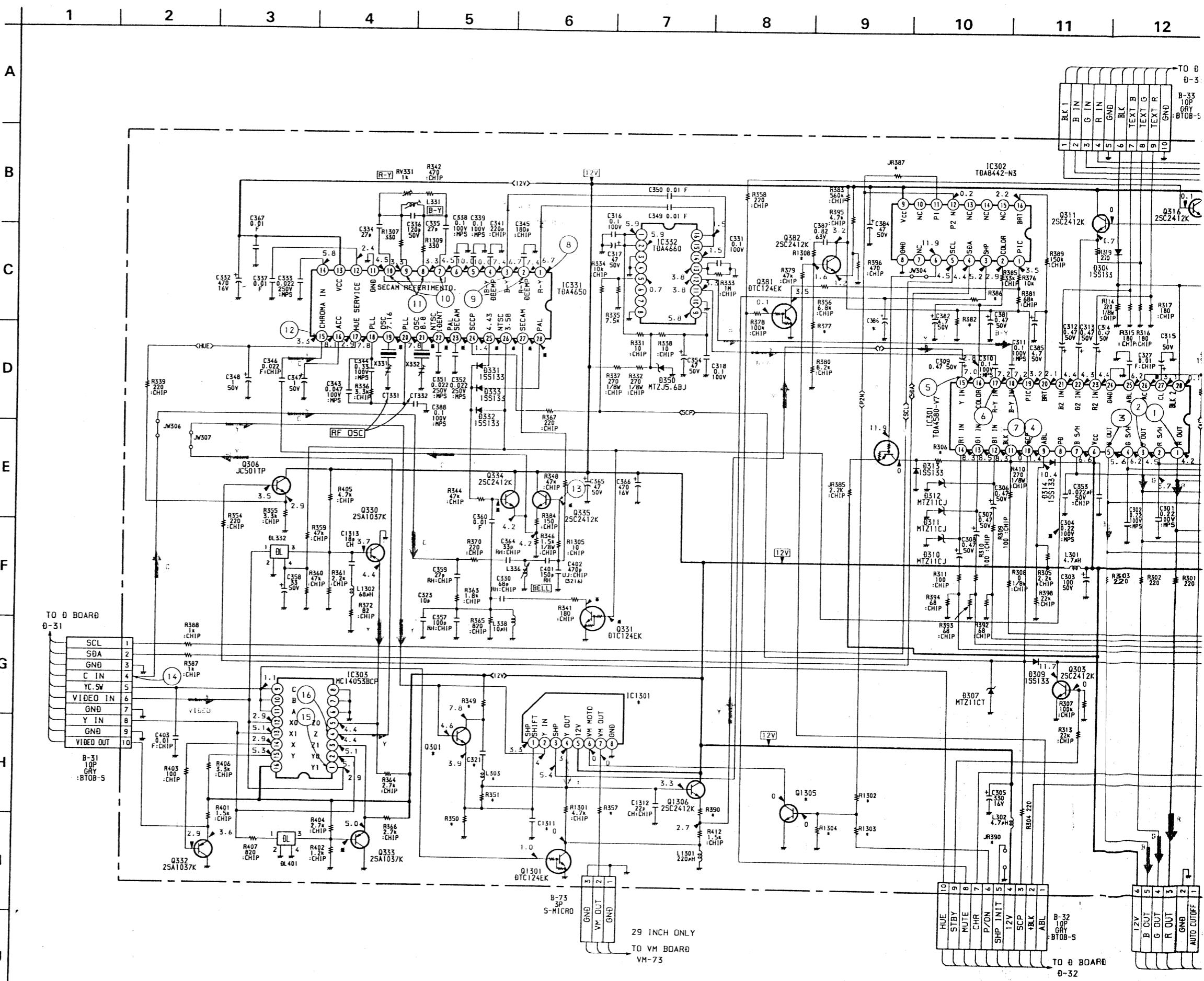
- : NOT MOUNTED

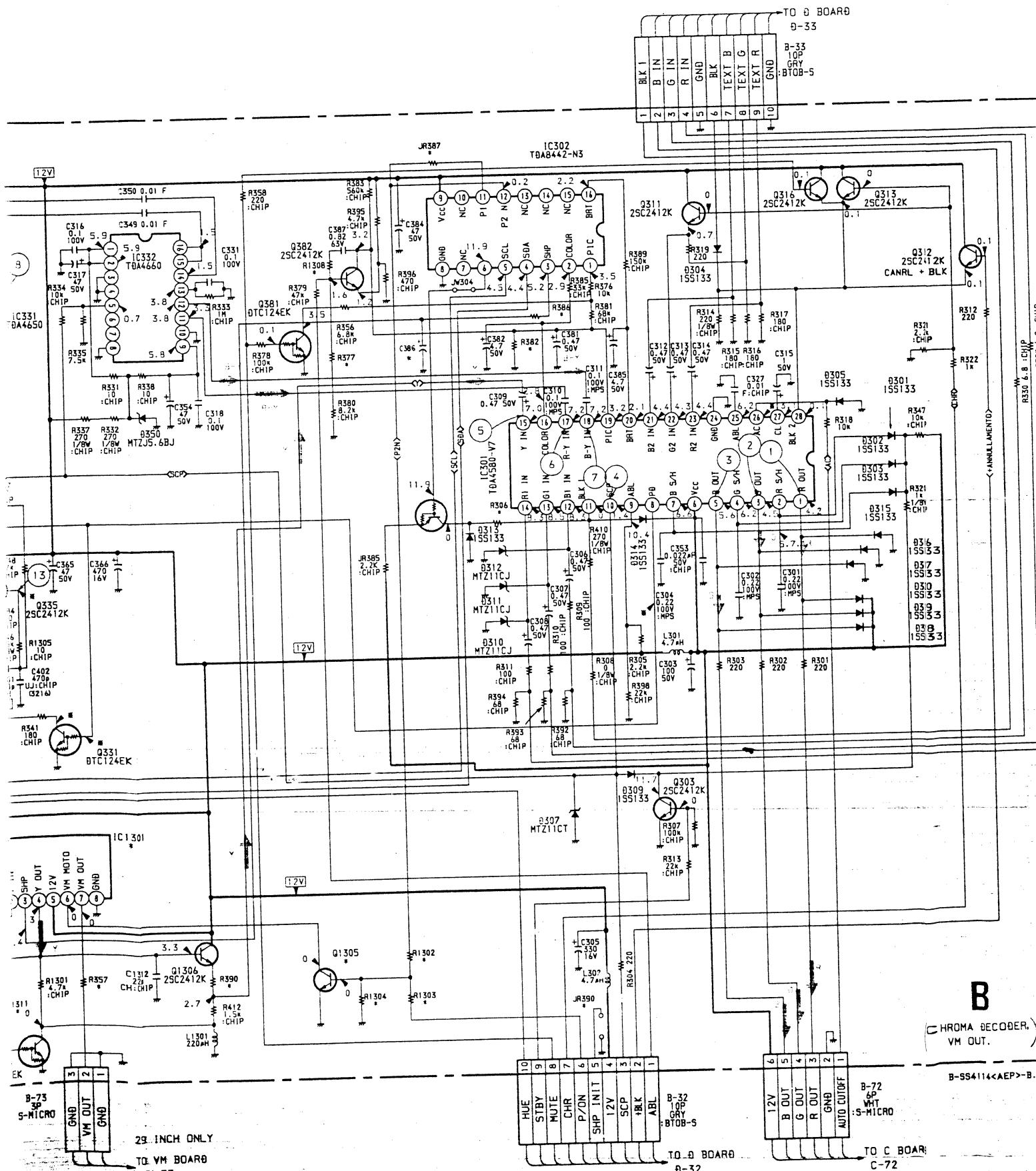
KV-C2161D/C2561D/C2961D

KV-C2161D/C2561D/C2961D

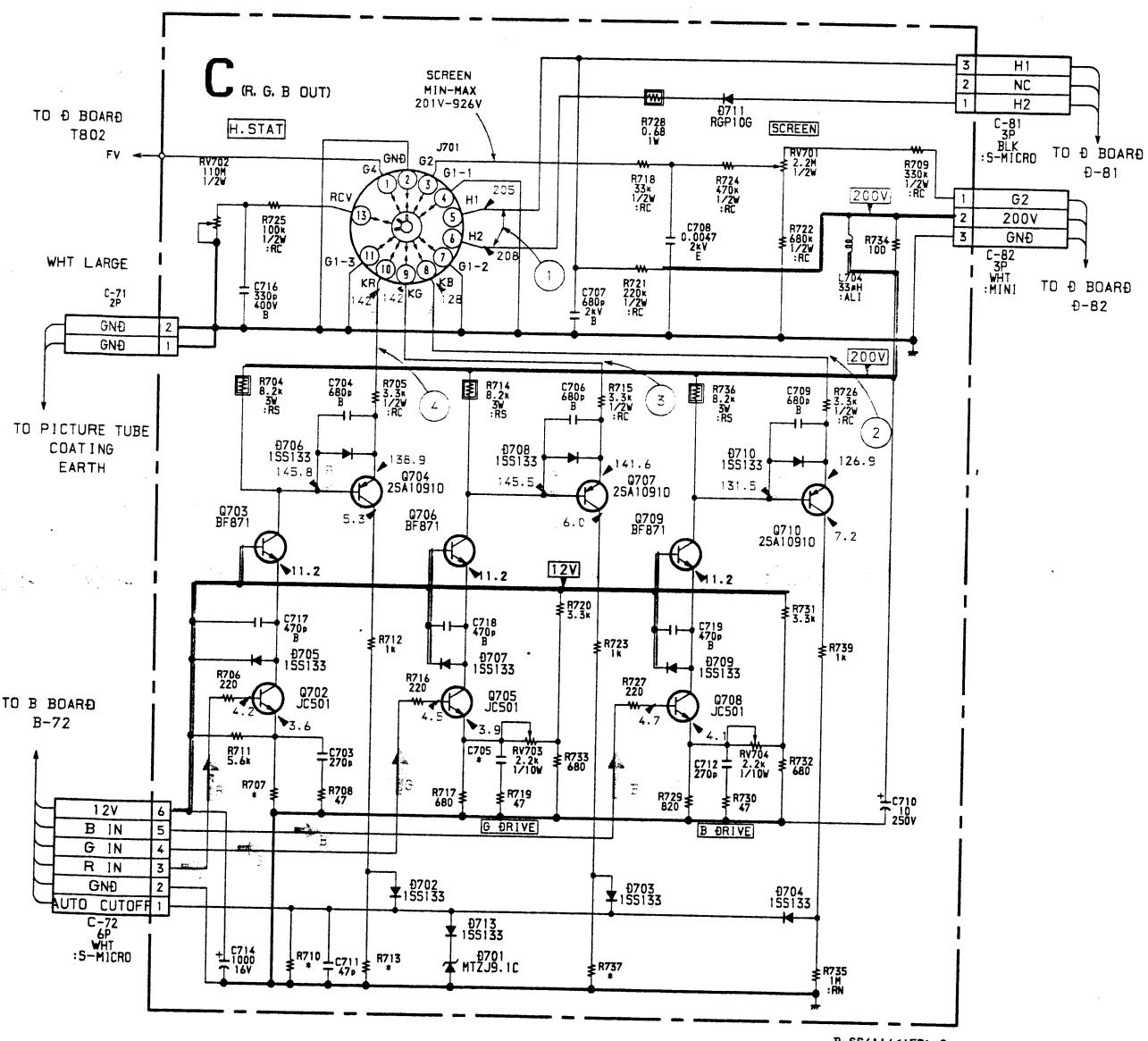
RM-816

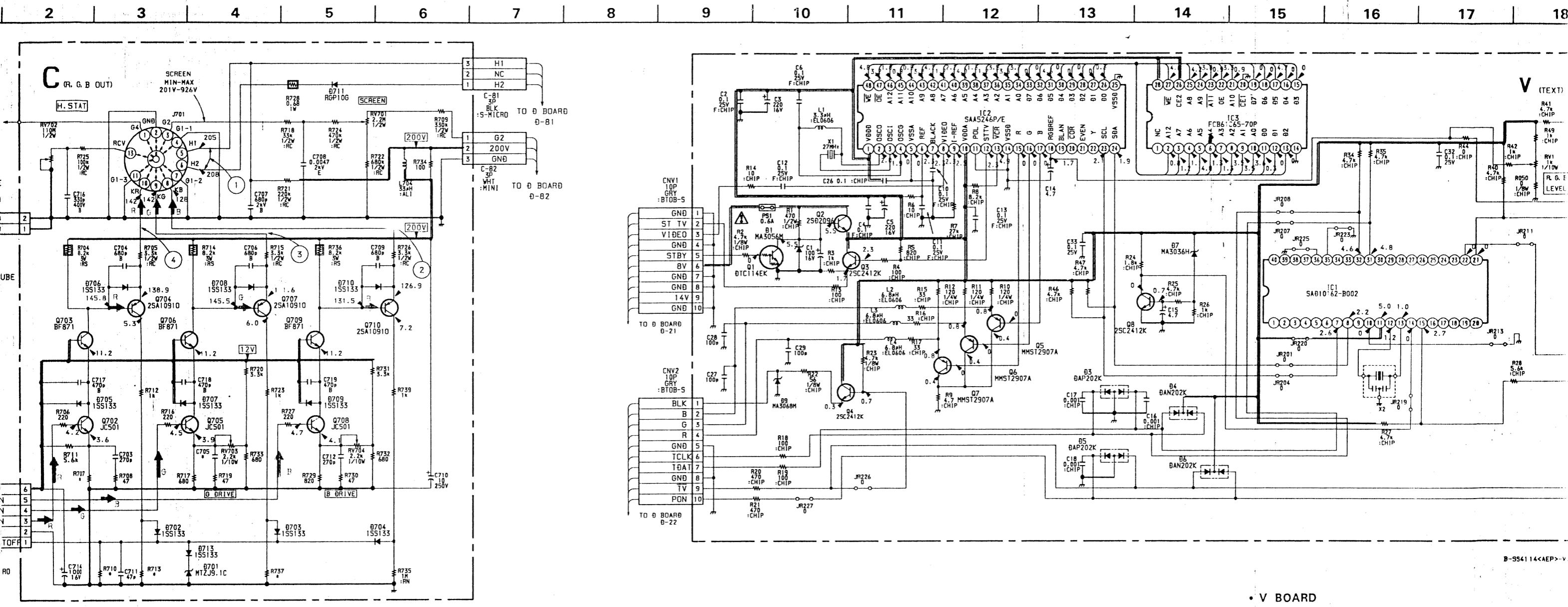
RM-816



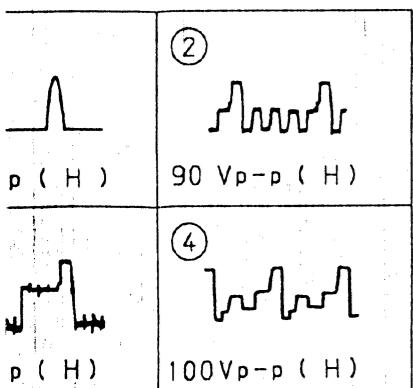


1 2 3 4 5 6 7 8





DRMS C BOARD



• C BOARD

Q702	JC501	R DRIVE
Q703	BF871	R OUT
Q704	2SA10910	ACO MEASURING
Q705	JC501	G DRIVE
Q706	BF871	G OUT
Q707	2SA10910	ACO MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACO MEASURING
Q701	MTZJ9.1C	PROTECT
Q702	ISS133	PROTECT
Q703	ISS133	PROTECT
Q704	ISS133	PROTECT
Q705	ISS133	PROTECT
Q706	ISS133	PROTECT
Q707	ISS133	PROTECT
Q708	ISS133	PROTECT
Q709	ISS133	PROTECT
Q710	ISS133	PROTECT
Q711	RGP10G	HEATING VOLTAGE REC
Q713	ISS133	PROTECT

C BOARD * MARK

	21"	25"	29"
C705	180P	220P	220P
R707	430	390	390
R710	100K	68K	68K
R713	160K	120K	120K
R737	390K	820K	470K

- : NOT MOUNTED

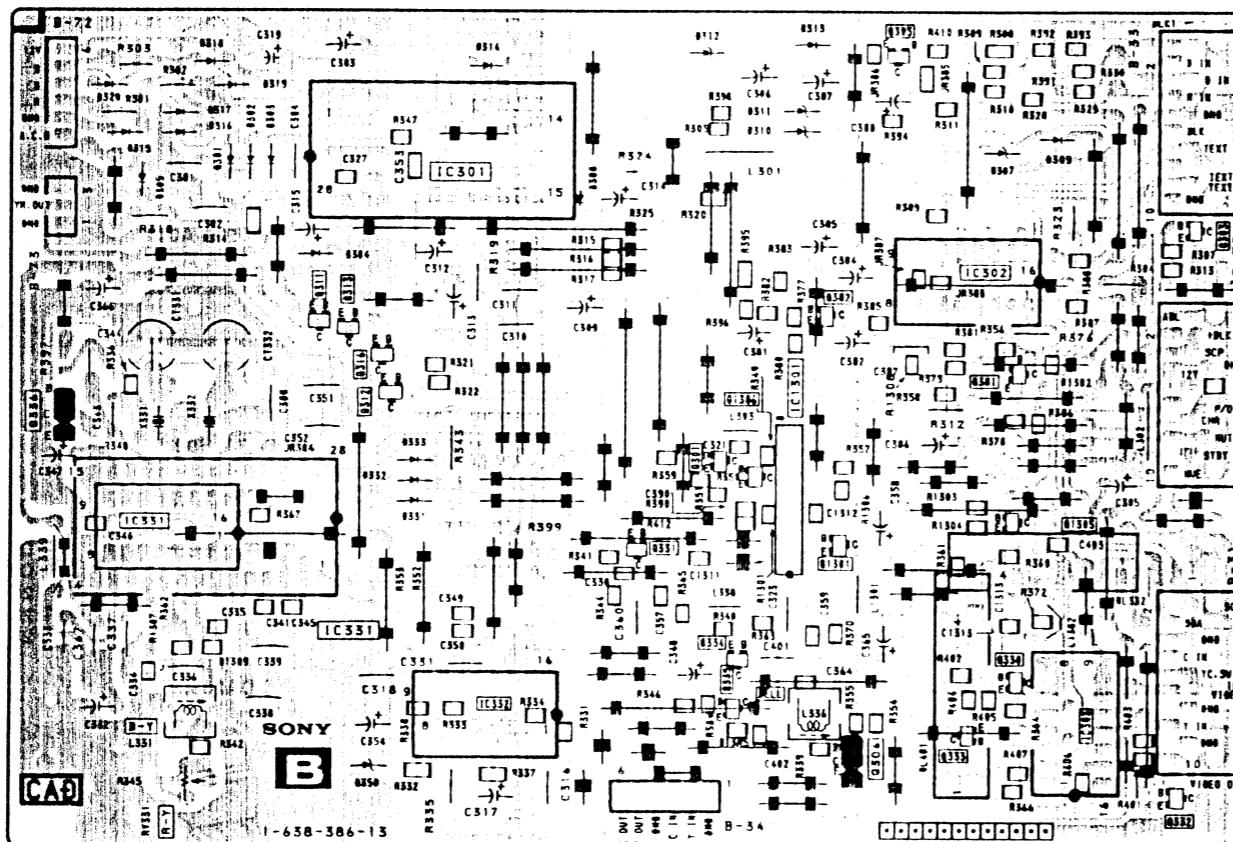
IC1	SDA2016Z-B002	MICRO-CONT
IC2	SAA5246P/E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	DTC114EK	STAD BY
Q2	2SD2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	RESET
D1	MA3056M	5V REG
D3	DAP202K	PROTEC
D4	DAN202K	PROTEC
D5	DAP202K	PROTEC
D6	DAN202K	PROTEC
D7	MA3036H	PROTEC
D9	MA3068M	PROTEC

18

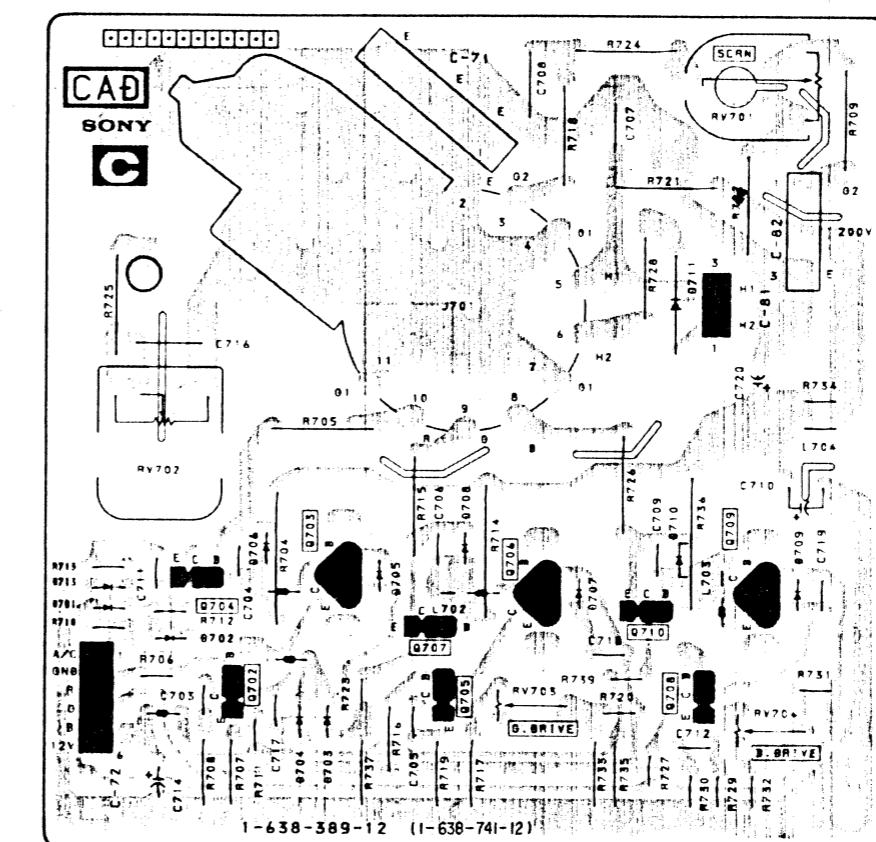
19

B [CHROMA DECODER] **C** [R. G. B OUT] **V** [TELE TEX]

-B Board-

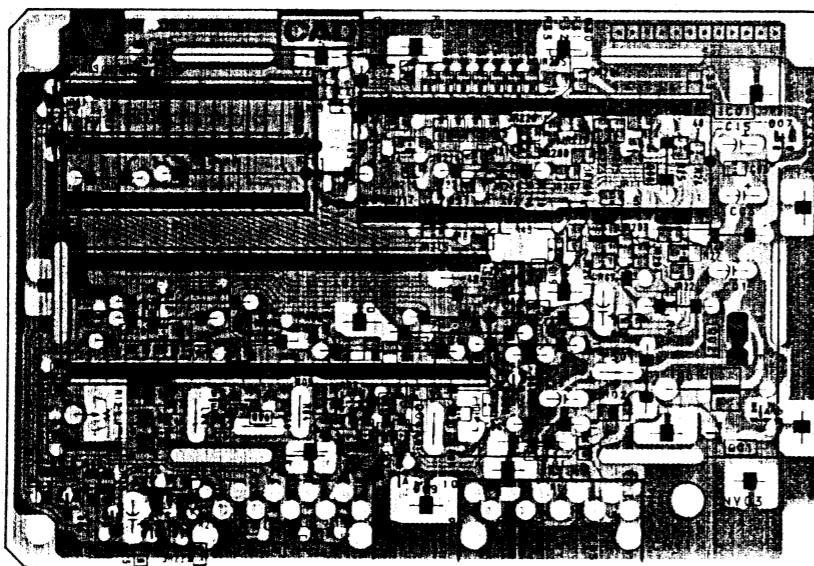


-C Board-



- V Board -

B-554114<AEPI>-V..

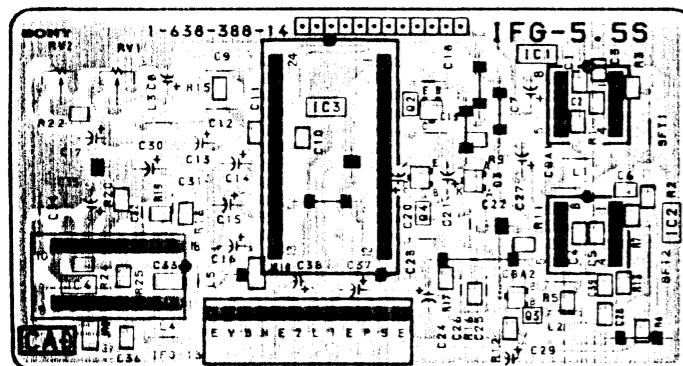


- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

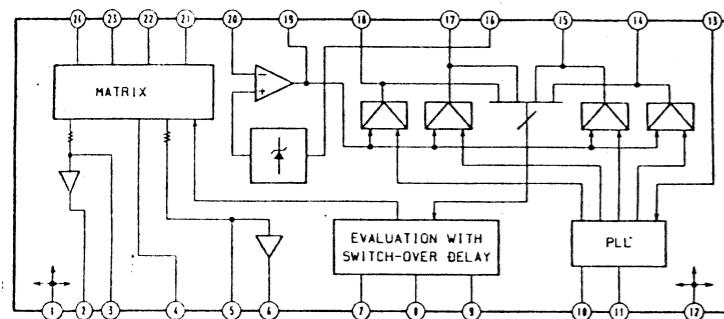
IFG

[SIF]

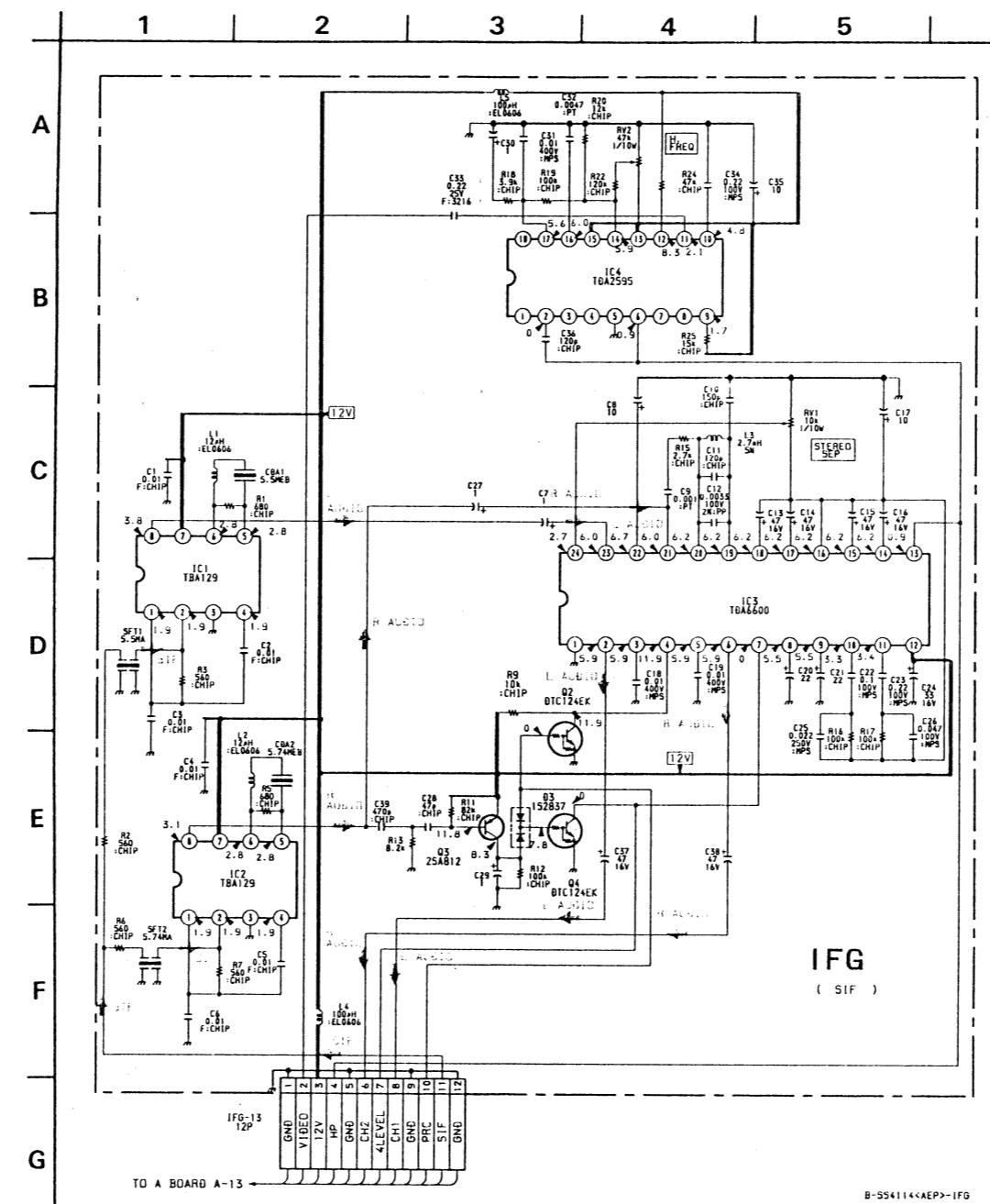
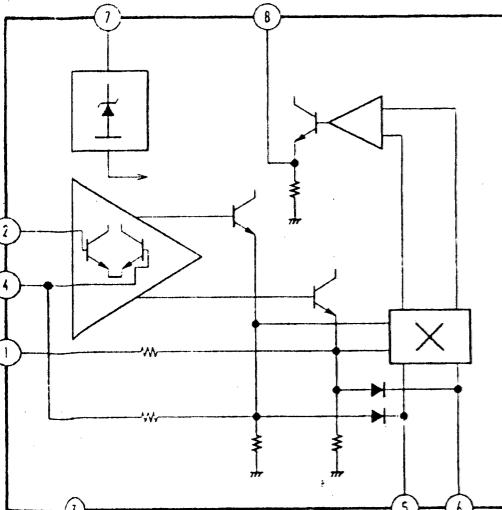
-IFG-5.5S Board-



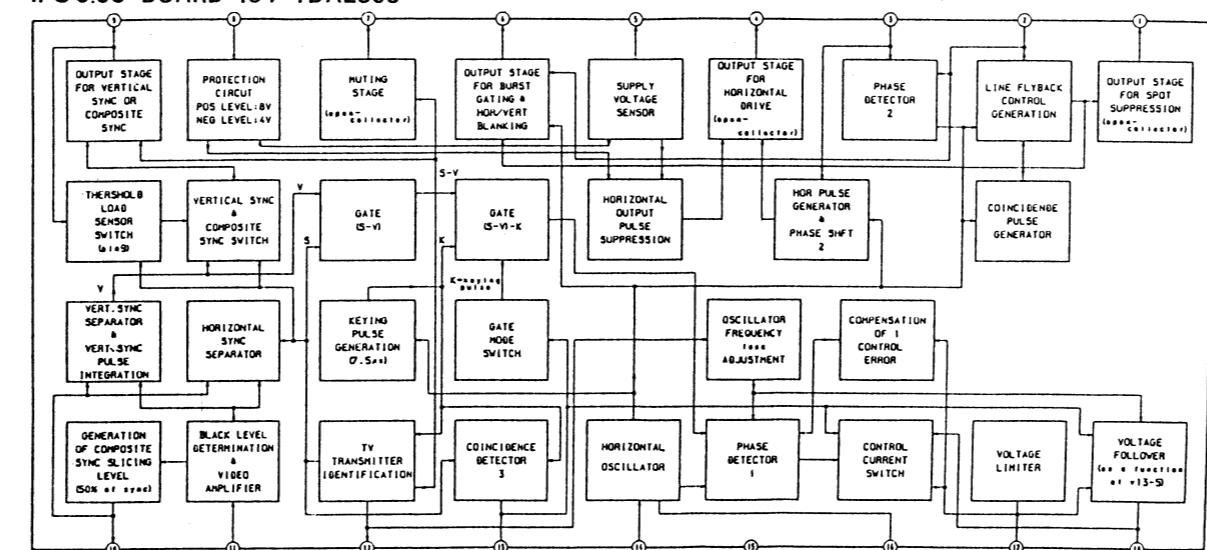
IFG-5.5S BOARD IC3 TDA6600



IFG-5.5S BOARD IC1/2 TBA129

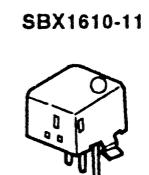


IFG-5.5S BOARD IC4 TDA2595



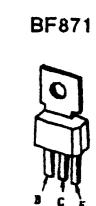
5-4. SEMICONDUCTORS

BA4558
NE5532P
RC4558P
SDA2546
TBA129
TDA1543
TEA2014A
TEA2031A

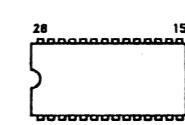


TDA8732
20 18 16 14 12
19 17 15 13 11
1 2 3 4 5 6 7 8 9 10
(Top view)

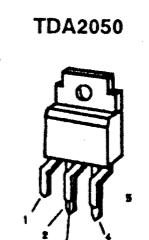
SDA20560-A012
40 21
1 2 3 4



CXA1114P
CXK5864BP-10L
FCB61C65-70P
MAB8461P-W208
SAA7280P/M3
TC5565APL-15L
TDA4580-V7
TDA4650-V4
TDA6200
TEA2028B



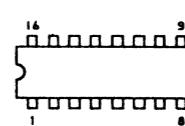
DTA144EK
DTC114EK
DTC124EK
DTC144EK
2SA1162-G
2SB1295-UL6
2SC1623-L5L6



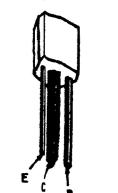
TDA2050
14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)



HD14053BFP
MC14051BCP
PCF8574
TDA4660V2
TDA8442-N3
TEA2260
μ PD4053BC



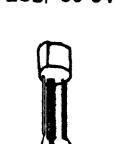
TDA2595-V9
16 9
1 8



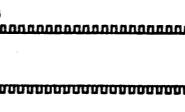
LM7812CT
TEA7605



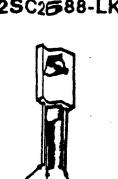
TDA6600-2
24 13
1 12



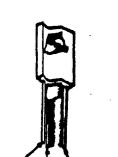
SAA5246P/E/M4A
SAA5246P/E
SAA5246P/H



TDA8170
18 10
1 9



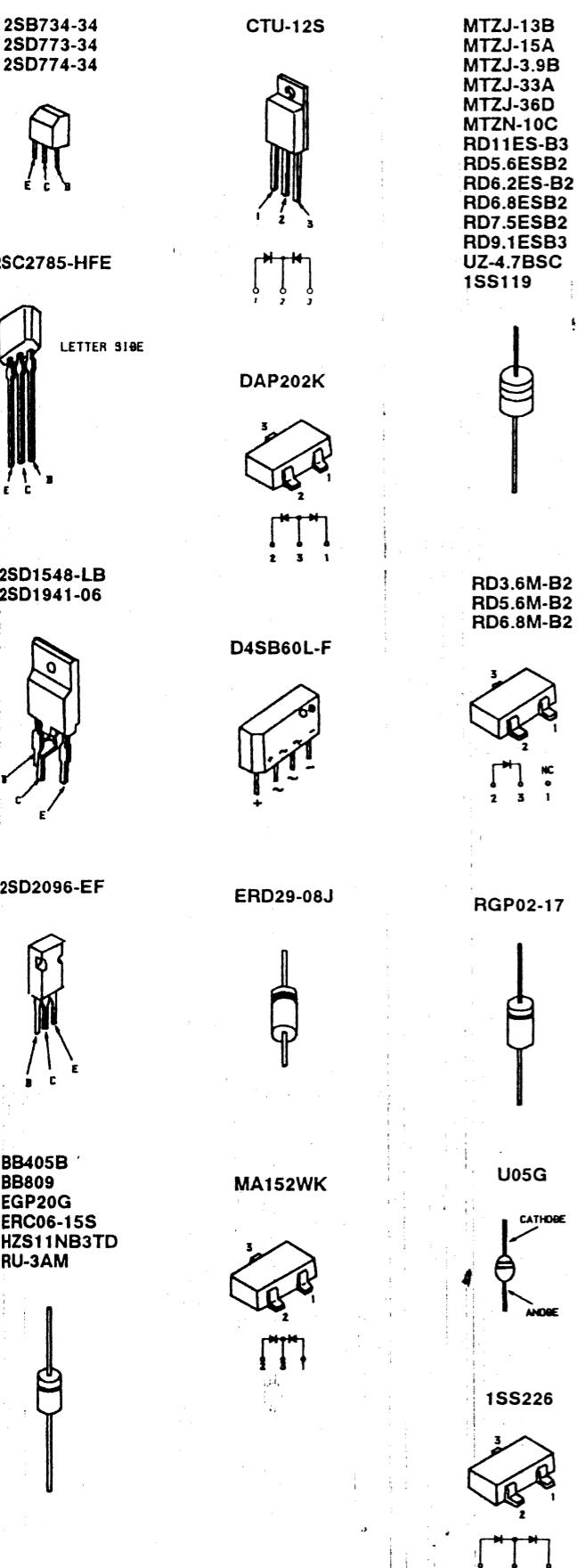
2SA1220A-P
2SC2568-LK
1 2 4 6 7
3 5



SECTION 6
EXPLODED VIEWS

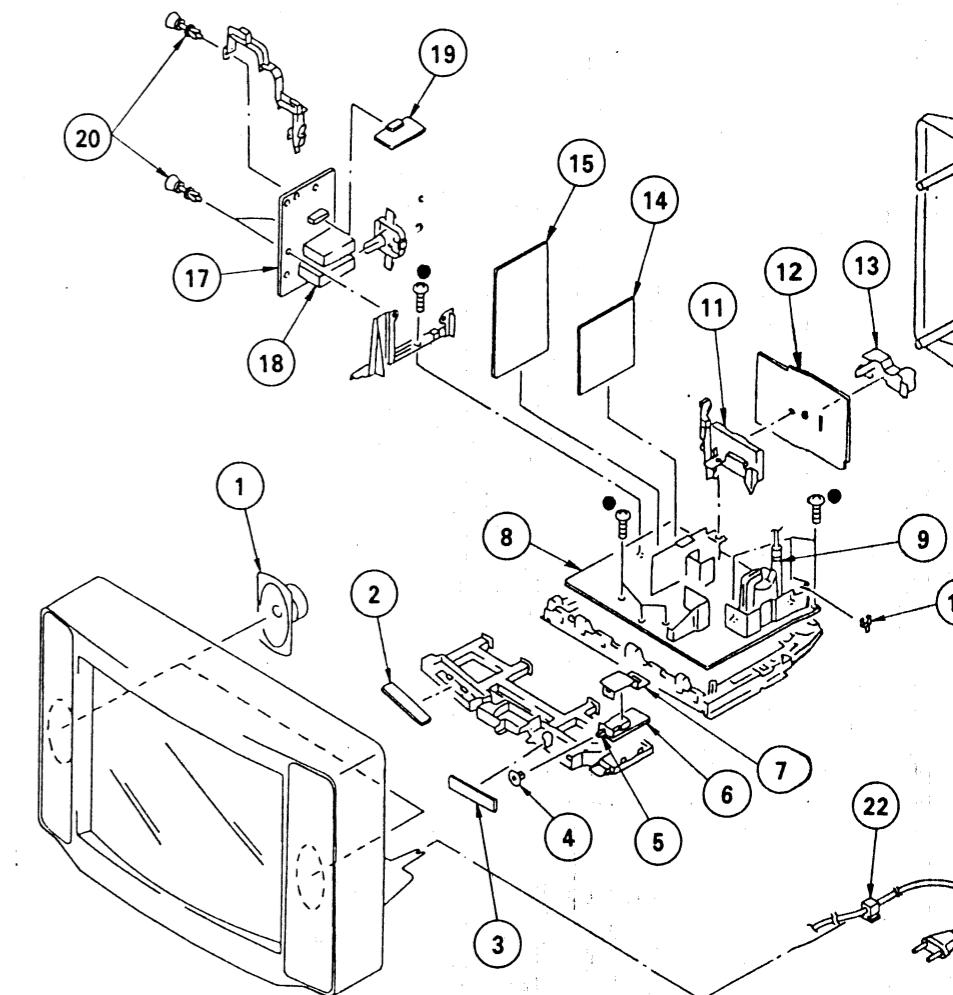
NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a collation number in the remark column.
 • Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.



6-1. CHASSIS (KV-C2161D)

- : BVTP 3 × 12 7-685-648-79
- : BVTP 4 × 16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.
1	1-544-525-11	SPEAKER	12	*A-1651-018-A
2	*1-638-391-11	H1 BOARD	13	4-200-014-01
3	*1-638-392-11	H2 BOARD	14	*A-1645-013-A
4	4-386-611-01	COVER, SWITCH	15	*A-1621-046-A
5	△1-571-433-12	SWITCH, PUSH (AC POWER)	16	4-033-072-01
6	*1-638-390-11	F BOARD	17	*A-1632-022-A
7	4-200-757-01	COVER, POWER SWITCH	18	△1-465-301-11
8	*A-1642-035-A	D BOARD, COMPLETE	19	*A-1654-004-A
9	△1-439-416-51	TRANSFORMER ASSY, #FLYBACK (UX-1650)	20	4-386-618-01
10	*3-646-071-00	HOLDER, WIRE	21	*A-1590-501-11
11	*4-275-624-11	BRACKET, J	22	△1-389-201-03

SECTION 6
EXPLODED VIEWS

NOTE:

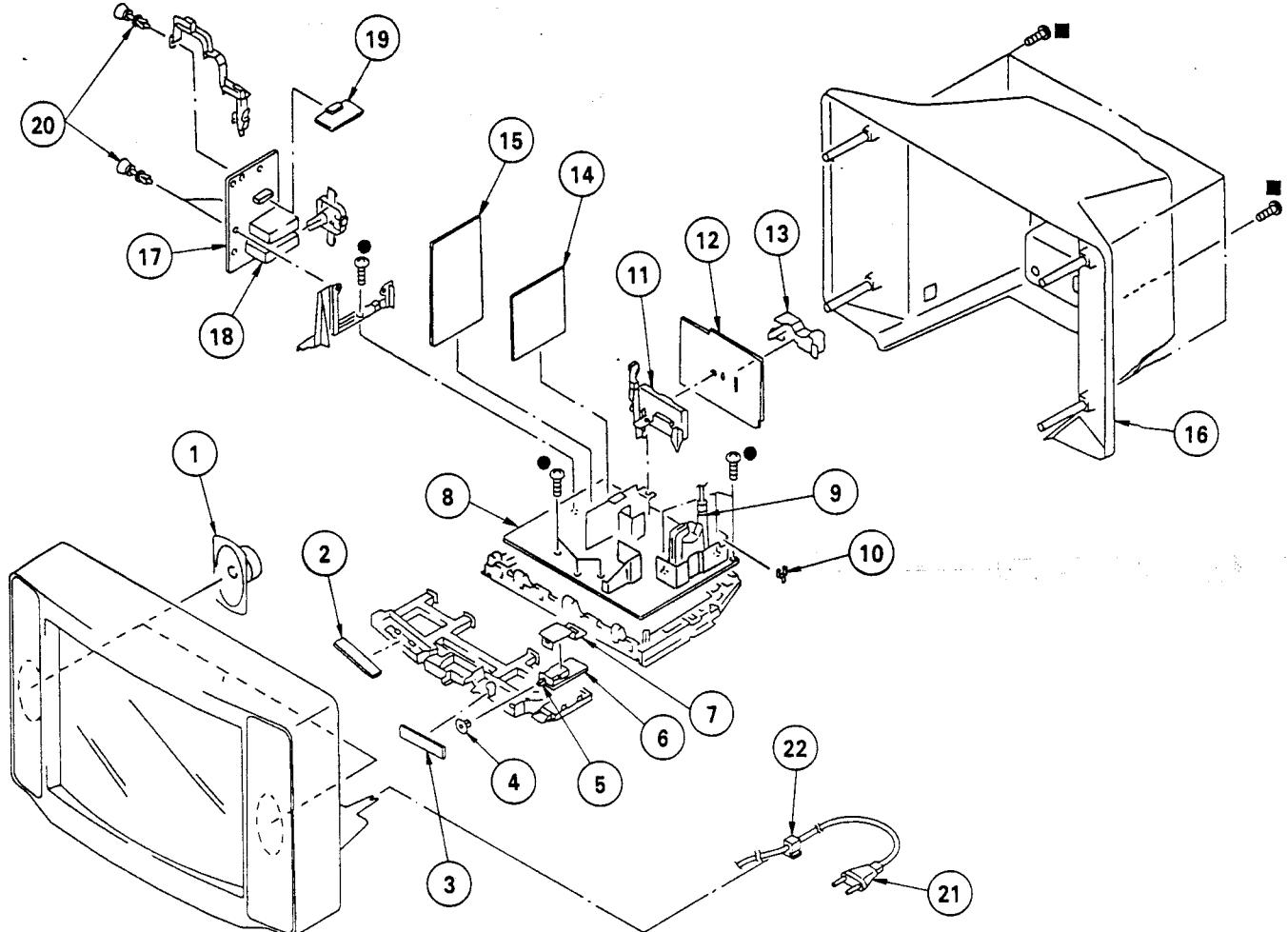
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

6-1. CHASSIS (KV-C2161D)

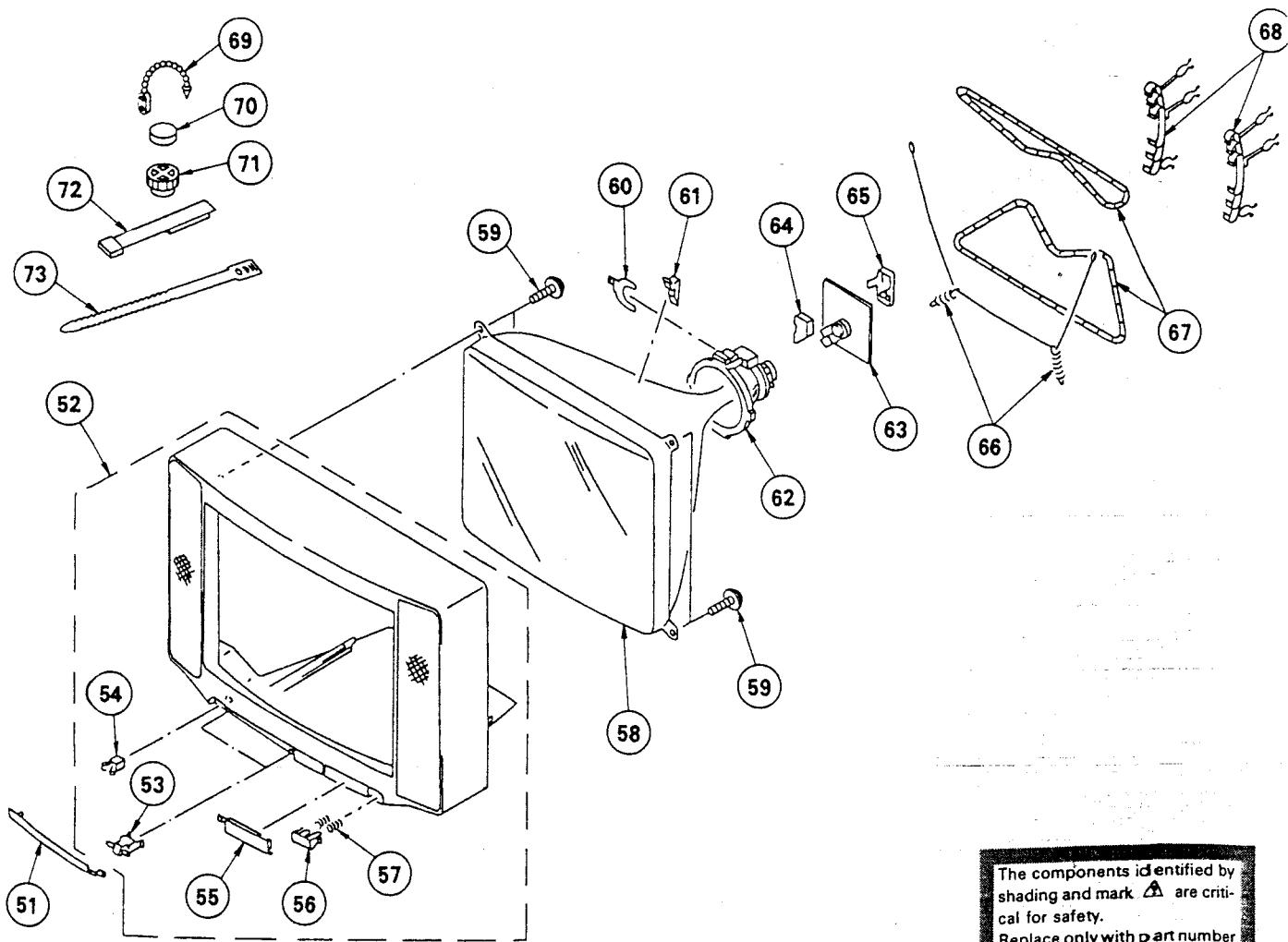
● : BVTP 3 × 12 7-685-648-79

■ : BVTP 4 × 16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	1-544-525-11	SPEAKER		12	*A-1651-018-A	J1 BOARD, COMPLETE	
2	*1-638-391-11	H1 BOARD		13	4-200-014-01	BRACKET, TERMINAL	
3	*1-638-392-11	H2 BOARD		14	*A-1645-013-A	V BOARD, COMPLETE	
4	4-386-611-01	COVER, SWITCH		15	*A-1621-046-A	B BOARD, COMPLETE	
5	▲ 1-571-433-12	SWITCH, PUSH (AC POWER)	▲	16	4-033-072-01	COVER, REAR	
6	*1-638-390-11	F BOARD		17	*A-1632-022-A	A BOARD, COMPLETE	
7	4-200-757-01	COVER, POWER SWITCH		18	▲ 1-465-301-11	TUNER, ET (UV-816(PLL))	
8	*A-1642-035-A	D BOARD, COMPLETE		19	*A-1654-004-A	IFG BOARD, COMPLETE	
9	▲ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)	▲	20	4-386-618-01	RIVET, T TYPE	
10	*3-646-071-00	HOLDER, WIRE		21	▲ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
11	*4-386-624-11	BRACKET, J		22	▲ 4-389-201-03	HOLDER, AC CORD	

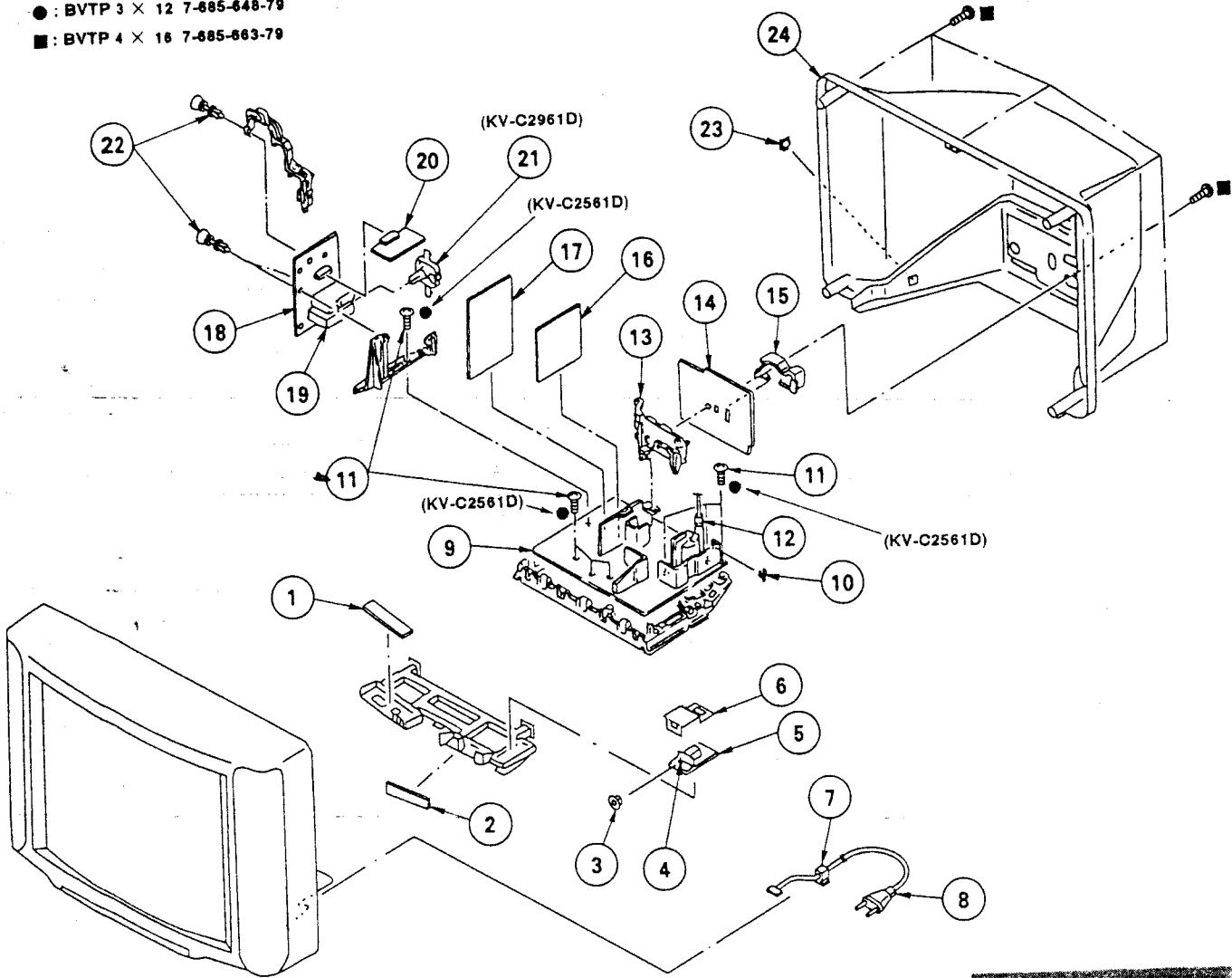
6-2. PICTURE TUBE (KV-C2161D)



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4029-863-1	DOOR ASSY		63	*A-1638-014-A	C BOARD, COMPLETE	
52	X-4029-864-1	CABINET ASSY (WITH BEZEL ASSY)	53~57	64	*4-379-167-01	COVER (MAIN), CV	
53	3-703-035-11	SHAFT, LID		65	*4-379-160-01	COVER (REAR LID), CV	
54	4-392-036-01	CATCHER, PUSH		66	4-200-433-01	SPRING, EXTENSION	
55	4-032-993-01	WINDOW, ORNAMENTAL		67	△ 1-426-383-11	COIL, DEMAGNETIZATION	
56	4-032-990-01	BUTTON, POWER		68	*4-386-622-01	BAND, DGC	
57	4-329-112-51	SPRING		69	4-308-870-00	CLIP, LEAD WIRE	
58	△ 8-738-758-05	PICTURE TUBE (A51JXH61X)		70	1-452-032-00	MAGNET, DISK; 10MM	
59	4-036-189-01	SCREW (S), PT		71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
60	1-452-277-00	MAGNET, BMC		72	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
61	3-704-495-01	SPACER, DY		73	3-701-007-00	BAND, BINDING	
62	△ 1-451-295-11	DEFLECTION YOKE (Y21PFA2)					

6-3. CHASSIS (KV-C2561D/C2961D)

- : BVTP 3 X 12 7-685-648-79
- : BVTP 4 X 16 7-685-663-79

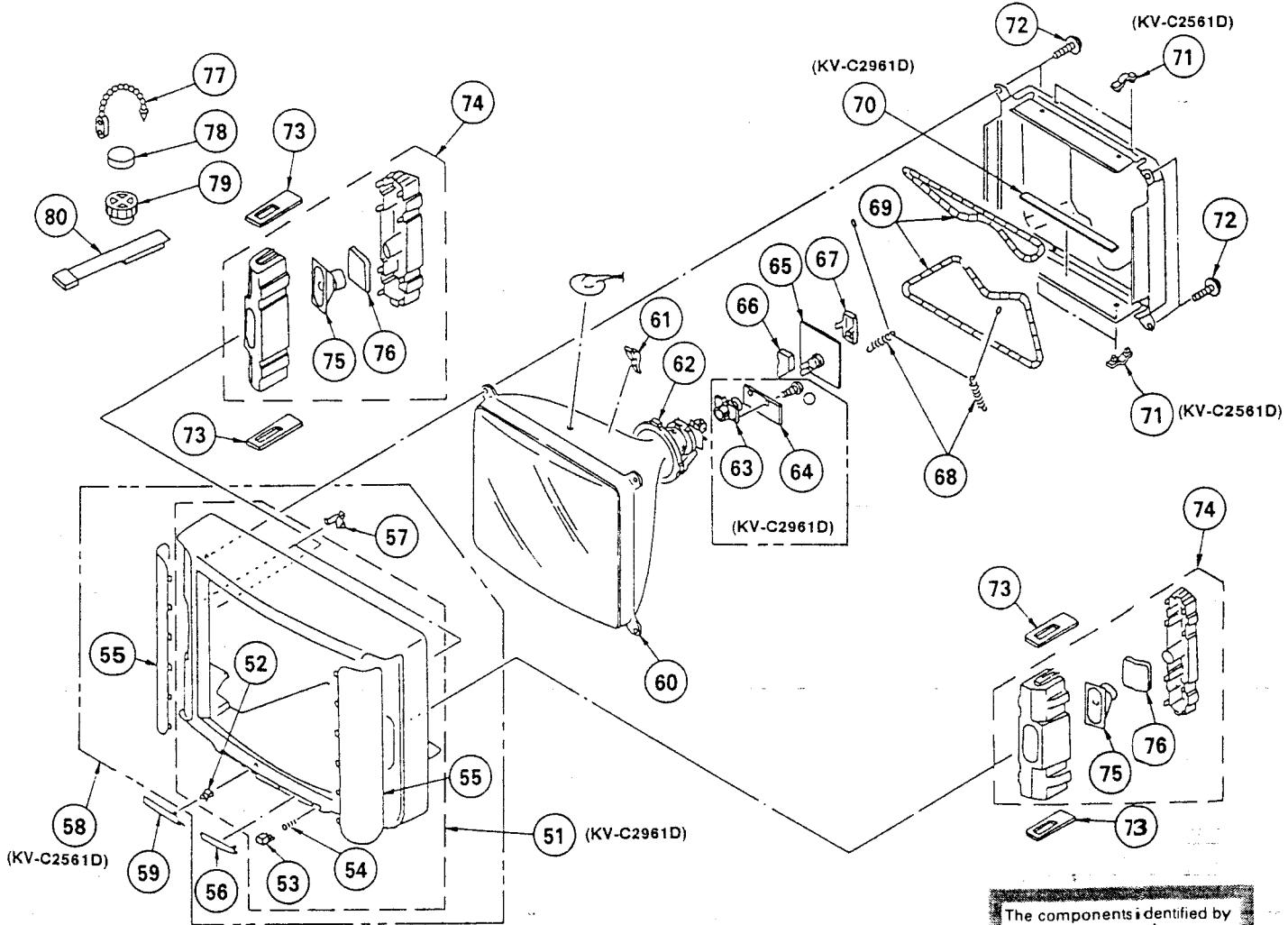


The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* 1-638-744-11	H1 BOARD (KV-C2561D)		13	* 4-386-624-01	BRACKET, J (KV-C2561D)	
	* 1-638-391-11	H1 BOARD (KV-C2961D)		14	* 4-386-624-11	BRACKET, J (KV-C2961D)	
2	* 1-638-745-11	H2 BOARD (KV-C2561D)		14	* A-1651-023-A	J1 BOARD, COMPLETE (KV-C2561D)	
	* 1-638-392-11	H2 BOARD (KV-C2961D)		14	* A-1651-038-A	J1 BOARD, COMPLETE (KV-C2961D)	
3	4-386-611-11	COVER, SWITCH (KV-C2561D)		15	4-200-014-11	BRACKET, TERMINAL (KV-C2561D)	
	4-386-611-01	COVER, SWITCH (KV-C2961D)		15	4-200-014-01	BRACKET, TERMINAL (KV-C2961D)	
4	▲ 1-571-433-12	SWITCH, PUSH (AC POWER)		16	* A-1645-022-A	V BOARD, COMPLETE (KV-C2561D)	
5	* 1-638-743-11	F BOARD (KV-C2561D)		16	* A-1645-013-A	V BOARD, COMPLETE (KV-C2961D)	
	* 1-638-390-11	F BOARD (KV-C2961D)		17	* A-1621-041-A	B BOARD, COMPLETE (KV-C2561D)	
6	4-200-274-11	COVER, POWER SWITCH (KV-C2561D)		17	* A-1621-040-A	B BOARD, COMPLETE (KV-C2961D)	
	4-200-952-01	COVER, POWER SWITCH (KV-C2961D)		18	* A-1632-054-A	A BOARD, COMPLETE (KV-C2561D)	
7	▲ 4-389-201-11	HOLDER, AC CORD (KV-C2561D)		18	* A-1632-094-A	A BOARD, COMPLETE (KV-C2961D)	
	▲ 4-389-201-03	HOLDER, AC CORD (KV-C2961D)		19	▲ 1-465-301-11	TUNER, ET (UV-816(PLL))	
8	▲ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)		20	* A-1654-005-A	IFG BOARD, COMPLETE (KV-C2561D)	
9	* A-1642-062-A	D BOARD, COMPLETE (KV-C2561D)		20	* A-1654-008-A	IFG BOARD, COMPLETE (KV-C2961D)	
	* A-1642-032-A	D BOARD, COMPLETE (KV-C2961D)		21	* 4-386-617-01	HOLDER, TERMINAL (KV-C2961D)	
10	* 3-646-071-00	HOLDER, WIRE (KV-C2961D)		22	4-386-618-01	RIVET, T TYPE	
11	4-364-802-00	SCREW (3.5X13) (KV-C2961D)		23	4-202-035-01	COVER, TERMINAL (KV-C2561D)	
12	▲ 1-439-416-41	TRANSFORMER ASSY, FLYBACK (KV-C2561D)		23	4-202-004-01	COVER, TERMINAL (KV-C2961D)	
	▲ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650) (KV-C2961D)		24	4-202-032-01	COVER, REAR (KV-C2561D)	
					4-202-014-01	COVER, REAR (KV-C2961D)	

6-4. PICTURE TUBE (KV-C2561D/C2961D)

○ : BVTP 3 X 8 7-685-646-79



The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4200-098-1	CABINET ASSY (WITH BEZEL ASSY) (KV-C2961D)	52-54	64	*1-634-193-11	VM BOARD (KV-C2961D)	
				65	*A-1638-015-A	C BOARD, COMPLETE (KV-C2561D)	
					*A-1638-013-A	C BOARD, COMPLETE (KV-C2961D)	
52	4-392-036-01	CATCHER, PUSH		66	*4-379-167-01	COVER (MAIN), CV	
53	4-202-022-01	BUTTON, POWER (KV-C2561D)		67	*4-379-160-01	COVER (REAR LID), CV	
54	4-200-991-01	BUTTON, POWER (KV-C2961D)		68	4-303-774-99	SPRING (KV-C2561D)	
	4-329-112-00	SPRING (KV-C2561D)			4-369-318-00	SPRING, TENSION (KV-C2961D)	
	4-329-112-41	SPRING (KV-C2961D)		69	△ 1-426-372-11	COIL, DEMAGNETIZATION (KV-C2561D)	
55	X-4200-101-1	PLATE ASSY, ORNAMENTAL (KV-C2561D)			△ 1-426-398-11	COIL, DEMAGNETIZATION (KV-C2961D)	
	X-4200-099-1	PLATE ORNAMENTAL ASSY (KV-C2961D)		70	3-651-853-01	CUSHION (KV-C2961D)	
56	4-202-020-01	WINDOW, ORNAMENTAL (KV-C2561D)		71	*4-385-916-01	HOLDER (D) (KV-C2561D)	
	4-200-989-01	WINDOW, ORNAMENTAL (KV-C2961D)		72	4-373-263-11	SCREW (M), PT (KV-C2561D)	
57	4-202-023-01	CLIP, CONTACT (KV-C2561D)			4-200-976-01	SCREW, PT (KV-C2961D)	
	4-200-992-01	CLIP, CONTACT (KV-C2961D)		73	4-202-027-01	CUSHION, BOX (KV-C2561D)	
58	X-4200-100-1	CABINET ASSY (WITH BEZEL ASSY) (KV-C2561D)	52-57		4-200-995-01	CUSHION, BOX (KV-C2961D)	
				74	A-1678-036-A	BOX COMPLETE ASSY (KV-C2561D)	75,76
					A-1678-048-A	BOX ASSY (KV-C2961D)	75,76
59	4-202-021-01	DOOR (KV-C2561D)		75	1-504-146-11	SPEAKER (5X11CM)	
	4-200-990-01	DOOR (KV-C2961D)		76	4-202-029-01	STOPPER (KV-C2561D)	
60	△ 8-733-231-05	PICTURE TUBE (A59JWC61X) (KV-C2561D)			4-200-999-01	STOPPER (KV-C2961D)	
	△ 8-733-831-05	PICTURE TUBE (A68JYL61X) (KV-C2961D)		77	4-308-870-00	CLIP, LEAD WIRE	
61	3-704-495-01	SPACER, DY		78	1-452-032-00	MAGNET, DISK; 10MM	
62	△ 1-451-311-21	DEFLECTION YOKE (Y25FXA) (KV-C2561D)		79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	△ 1-451-313-21	DEFLECTION YOKE (Y29FXA) (KV-C2961D)		80	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
63	△ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308) (KV-C2961D)					

B

NOTE :

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

RESISTORS

- All resistors are in ohms
- F : nonflammable

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D310	8-719-110-23	DIODE RD118S-83					
D311	8-719-110-23	DIODE RD118S-83		JR385	1-216-206-00	METAL GLAZE	2.2K 5%
D312	8-719-110-23	DIODE RD118S-83		JR387	1-216-295-00	METAL GLAZE	0 5% 1/8W
D313	8-719-911-19	DIODE ISS119					1/10W
D314	8-719-911-19	DIODE ISS119					(KV-C2961D)
D315	8-719-911-19	DIODE ISS119		JR390	1-216-295-00	METAL GLAZE	0 5% 1/10W
D316	8-719-911-19	DIODE ISS119		R301	1-249-409-11	CARBON	220 5% 1/4W
D317	8-719-911-19	DIODE ISS119		R302	1-249-409-11	CARBON	220 5% 1/4W
D318	8-719-911-19	DIODE ISS119		R303	1-249-409-11	CARBON	220 5% 1/4W
D319	8-719-911-19	DIODE ISS119		R304	1-249-409-11	CARBON	220 5% 1/4W
D320	8-719-911-19	DIODE ISS119		R305	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
D331	8-719-911-19	DIODE ISS119		R307	1-216-097-00	METAL GLAZE	100K 5% 1/10W
D332	8-719-911-19	DIODE ISS119		R308	1-216-296-00	METAL GLAZE	0 5% 1/8W
D333	8-719-911-19	DIODE ISS119		R309	1-216-025-00	METAL GLAZE	100 5% 1/10W
D350	8-719-109-89	DIODE RD5.6ES-B2		R310	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R311	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R312	1-249-409-11	CARBON	220 5% 1/4W
DL332	1-236-062-11	MODULE, Y DELAY LINE		R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
DL401	1-415-613-11	DELAY LINE, Y		R314	1-216-182-00	METAL GLAZE	220 5% 1/8W
				R315	1-216-031-00	METAL GLAZE	180 5% 1/10W
				R316	1-216-031-00	METAL GLAZE	180 5% 1/10W
				R317	1-216-031-00	METAL GLAZE	180 5% 1/10W
IC301	8-759-517-43	IC TDA4580-V7		R318	1-249-429-11	CARBON	10K 5% 1/4W
IC302	8-759-980-60	IC TDA442N3		R319	1-249-409-11	CARBON	220 5% 1/4W
IC303	8-759-140-53	IC UPD4053BC		R320	1-216-198-00	METAL GLAZE	1K 5% 1/8W
IC331	8-759-521-22	IC TDA4650/V4		R321	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
IC332	8-759-505-39	IC TDA4660V2		R322	1-216-049-00	METAL GLAZE	1K 5% 1/10W
IC1301	1-235-534-11	CONTROL MODULE, PICTURE (KV-C2961D)		R328	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
				R329	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
				R330	1-216-311-00	METAL GLAZE	6.8 5% 1/10W
L301	1-410-868-11	INDUCTOR	4.7UH	R331	1-216-001-00	METAL GLAZE	10 5% 1/10W
L302	1-410-868-11	INDUCTOR	4.7UH	R332	1-216-184-00	METAL GLAZE	270 5% 1/8W
L303	1-408-406-00	INDUCTOR	5.6UH (KV-C2161D, C2561D)	R333	1-216-121-00	METAL GLAZE	1M 5% 1/10W
L331	1-404-554-11	COIL		R334	1-216-073-00	METAL GLAZE	10K 5% 1/10W
L336	1-404-554-11	COIL		R335	1-247-852-11	CARBON	7.5K 5% 1/4W
L338	1-408-409-00	INDUCTOR	10UH	R336	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
L1301	1-408-425-00	INDUCTOR	220UH	R337	1-216-184-00	METAL GLAZE	270 5% 1/8W
L1302	1-408-419-00	INDUCTOR	68UH	R338	1-216-001-00	METAL GLAZE	10 5% 1/10W
				R339	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R341	1-216-031-00	METAL GLAZE	180 5% 1/10W
				R342	1-216-041-00	METAL GLAZE	470 5% 1/10W
				R344	1-216-089-00	METAL GLAZE	47K 5% 1/10W
				R346	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
				R347	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R348	1-216-089-00	METAL GLAZE	47K 5% 1/10W
			(KV-C2161D, C2561D)	R349	1-216-045-00	METAL GLAZE	680 5% 1/10W
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R350	1-216-045-00	METAL GLAZE	680 5% 1/10W
Q305	8-729-901-06	TRANSISTOR DTA144EK					(KV-C2161D, C2561D)
Q306	8-729-119-78	TRANSISTOR 2SC2785-HPE		R351	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R354	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q311	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R355	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R356	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R357	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R358	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q330	8-729-216-22	TRANSISTOR 2SA1162-G		R359	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q331	8-729-901-00	TRANSISTOR DTC124EK		R360	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R361	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q333	8-729-216-22	TRANSISTOR 2SA1162-G		R363	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6					(KV-C2961D)
Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q381	8-729-901-00	TRANSISTOR DTC124EK					
Q382	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q1301	8-729-901-00	TRANSISTOR DTC124EK					
Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (KV-C2961D)					
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6					

KV-C2161D/C2561D/C2961D
RM-816

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

B F A

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

A **IFB**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK					
<IC>												
IC103	8-759-979-62	IC PCF8574		VIF101	1-466-154-11	IF BLOCK (IFG-389S)						

<COIL>												
L100	1-410-683-31	INDUCTOR	560UH	<IF BLOCK>								
L101	1-408-225-00	INDUCTOR	3.3UH	VIF101 1-466-154-11 IF BLOCK (IFG-389S)								
L102	1-408-413-00	INDUCTOR	22UH	*****								
L107	1-408-397-00	INDUCTOR	1UH	1-466-154-11 IFB BOARD (IF BLOCK IFG-389S)								

<TRANSISTOR>												
Q113	8-729-120-28	TRANSISTOR	2SC1623-L5L6	C9	I-163-029-11	CERAMIC CHIP 0.0047MF	50V					
Q114	8-729-120-28	TRANSISTOR	2SC1623-L5L6	C10	I-124-925-11	ELECT 2.2MF	20% 50V					
Q115	8-729-120-28	TRANSISTOR	2SC1623-L5L6	C11	I-164-232-11	CERAMIC CHIP 0.01MF	10% 50V					
Q116	8-729-120-28	TRANSISTOR	2SC1623-L5L6	C12	I-163-029-11	CERAMIC CHIP 0.0047MF	50V					
Q125	8-729-900-89	TRANSISTOR	DTC144BS	C13	I-163-029-11	CERAMIC CHIP 0.0047MF	50V					
Q126	8-729-901-06	TRANSISTOR	DTA144EK	C14	I-124-034-51	ELECT 33MF	20% 16V					
Q181	8-729-120-28	TRANSISTOR	2SC1623-L5L6	C17	I-163-117-00	CERAMIC CHIP 100PF	5% 50V					
<RESISTOR>												
JR230	I-216-295-00	METAL GLAZE	0 5%	1/10W	C18	I-163-107-00	CERAMIC CHIP 39PF	5% 50V				
JR252	I-216-296-00	METAL GLAZE	0 5%	1/8W	C19	I-126-176-11	ELECT 220MF	20% 10V				
JR253	I-216-296-00	METAL GLAZE	0 5%	1/8W	C20	I-123-382-00	ELECT 3.3MF	20% 50V				
JR255	I-216-296-00	METAL GLAZE	0 5%	1/8W	C21	I-163-031-11	CERAMIC CHIP 0.01MF	50V				
JR256	I-216-296-00	METAL GLAZE	0 5%	1/8W	C22	I-163-029-11	CERAMIC CHIP 0.0047MF	50V				
JR257	I-216-296-00	METAL GLAZE	0 5%	1/8W	C23	I-130-475-00	MYLAR 0.0022MF	5% 50V				
JR258	I-216-296-00	METAL GLAZE	0 5%	1/8W	C24	I-163-113-00	CERAMIC CHIP 68PF	5% 50V				
R101	I-216-025-00	METAL GLAZE	100 5%	1/10W	C25	I-163-113-00	CERAMIC CHIP 68PF	5% 50V				
R105	I-216-079-00	METAL GLAZE	18K 5%	1/10W	C28	I-163-029-11	CERAMIC CHIP 0.0047MF	50V				
R107	I-216-081-00	METAL GLAZE	22K 5%	1/10W	C29	I-163-029-11	CERAMIC CHIP 0.0047MF	50V				
R108	I-216-079-00	METAL GLAZE	18K 5%	1/10W	C30	I-124-034-51	ELECT 33MF	20% 0.25PF 50V				
R110	I-249-429-11	CARBON	10K 5%	1/4W	C31	I-163-085-00	CERAMIC CHIP 2PF	5% 50V				
R111	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W	C32	I-163-113-00	CERAMIC CHIP 68PF	5% 50V				
R116	I-216-023-00	METAL GLAZE	82 5%	1/10W	<FILTER>							
R118	I-216-085-00	METAL GLAZE	33K 5%	1/10W	C33	I-124-902-00	ELECT 0.47MF	20% 50V				
R128	I-216-027-00	METAL GLAZE	120 5%	1/10W	C34	I-163-029-11	CERAMIC CHIP 0.0047MF	50V				
R129	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W	C35	I-124-034-51	ELECT 33MF	20% 16V				
R130	I-216-057-00	METAL GLAZE	2.2K 5%	1/10W	<CONNECTOR>							
R157	I-216-049-00	METAL GLAZE	1K 5%	1/10W	CN1	*I-506-913-11	PIN, CONNECTOR 10P					
R158	I-249-409-11	CARBON	220 5%	1/4W	<IC>							
R159	I-249-409-11	CARBON	220 5%	1/4W	IC1	8-759-996-04	IC TDA8341/N6					
R161	I-216-089-00	METAL GLAZE	47K 5%	1/10W	IC2	8-759-516-81	IC TDA2545A-V4					
R162	I-216-095-00	METAL GLAZE	82K 5%	1/10W	<COIL>							
R163	I-216-095-00	METAL GLAZE	82K 5%	1/10W	L2	I-408-410-00	INDUCTOR	12UH				
R164	I-216-075-00	METAL GLAZE	12K 5%	1/10W	L3	I-408-406-00	INDUCTOR	5.6UH				
R165	I-216-075-00	METAL GLAZE	12K 5%	1/10W	L4	I-408-407-00	INDUCTOR	6.8UH				
R167	I-216-059-00	METAL GLAZE	2.7K 5%	1/10W	L6	I-408-397-00	INDUCTOR	1UH				
R168	I-216-089-00	METAL GLAZE	47K 5%	1/10W	L7	I-408-406-00	INDUCTOR	5.6UH				
R169	I-216-059-00	METAL GLAZE	2.7K 5%	1/10W	<TRANSISTOR>							
R181	I-216-049-00	METAL GLAZE	1K 5%	1/10W	Q1	8-729-920-74	TRANSISTOR 2SC2412K-QR					
R182	I-216-065-00	METAL GLAZE	4.7K 5%	1/10W	Q2	8-729-920-74	TRANSISTOR 2SC2412K-QR					
R193	I-216-073-00	METAL GLAZE	10K 5%	1/10W	Q7	8-729-216-22	TRANSISTOR 2SA1162-G					
R194	I-216-017-00	METAL GLAZE	47 5%	1/10W								
R195	I-216-017-00	METAL GLAZE	47 5%	1/10W								
R196	I-216-113-00	METAL GLAZE	470K 5%	1/10W								
<TUNER>												

***** I-465-301-11 TUNER, ET (UV-816.PLL) *****

IFB C

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<RESISTOR>											
JC1	I-216-296-00	METAL GLAZE 0	5% 1/8W	C717	I-102-114-00	CERAMIC 470PF	10% 50V				
R9	I-216-061-00	METAL GLAZE 3.3K	5% 1/10W	C718	I-102-114-00	CERAMIC 470PF	10% 50V				
R10	I-216-029-00	METAL GLAZE 150	5% 1/10W	C719	I-102-114-00	CERAMIC 470PF	10% 50V				
R11	I-216-049-00	METAL GLAZE 1K	5% 1/10W	<DIODE>							
R12	I-216-049-00	METAL GLAZE 1K	5% 1/10W	D701	8-719-110-14	DIODE RD9.1ES-B3					
R13	I-216-041-00	METAL GLAZE 470	5% 1/10W	D702	8-719-911-19	DIODE 1SS119					
R15	I-216-067-00	METAL GLAZE 5.6K	5% 1/10W	D703	8-719-911-19	DIODE 1SS119					
R16	I-216-045-00	METAL GLAZE 680	5% 1/10W	D704	8-719-911-19	DIODE 1SS119					
R17	I-216-077-00	METAL GLAZE 15K	5% 1/10W	D705	8-719-911-19	DIODE 1SS119					
R18	I-216-043-00	METAL GLAZE 560	5% 1/10W	D706	8-719-911-19	DIODE 1SS119					
R19	I-216-049-00	METAL GLAZE 1K	5% 1/10W	D707	8-719-911-19	DIODE 1SS119					
R20	I-216-045-00	METAL GLAZE 680	5% 1/10W	D708	8-719-911-19	DIODE 1SS119					
R21	I-216-295-00	METAL GLAZE 0	5% 1/10W	D709	8-719-911-19	DIODE 1SS119					
R22	I-216-093-00	METAL GLAZE 68K	5% 1/10W	D710	8-719-911-19	DIODE 1SS119					
R23	I-216-031-00	METAL GLAZE 180	5% 1/10W	D711	8-719-300-33	DIODE RU-3AM					
R24	I-216-081-00	METAL GLAZE 22K	5% 1/10W	D713	8-719-911-19	DIODE 1SS119					
R30	I-216-081-00	METAL GLAZE 22K	5% 1/10W								
R31	I-216-208-00	METAL GLAZE 2.7K	5% 1/8W								
<JACK>											
<VARIABLE RESISTOR>											
RV1	I-238-550-11	RES. ADJ. CARBON 100K		J701	I-526-990-11	SOCKET, PICTURE TUBE					
<TRANSFORMER>											
T1	I-404-493-31	COIL		L704	I-408-415-00	INDUCTOR 33UH					
T2	I-404-493-31	COIL									
T5	I-404-493-31	COIL									
<TRANSISTOR>											
*A-1638-014-A	C BOARD, COMPLETE (KV-C2161D)			Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE					

*A-1638-015-A	C BOARD, COMPLETE (KV-C2561D)			Q703	8-729-906-70	TRANSISTOR BF871					

*A-1638-013-A	C BOARD, COMPLETE (KV-C2961D)			Q704	8-729-200-17	TRANSISTOR 2SA1091-0					

*4-379-160-01	COVER (REAR LID), CV			Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE					
*4-379-167-01	COVER (MAIN), CV			Q706	8-729-906-70	TRANSISTOR BF871					
<RESISTOR>											
<CONNECTOR>											
C71	*1-506-371-00	PIN, CONNECTOR 2P		R704	I-216-486-00	METAL OXIDE 8.2K 5% 3W F					
C72	*1-568-881-51	PIN, CONNECTOR 6P		R705	I-202-824-00	SOLID 3.3K 10% 1/2W					
C81	*1-568-878-51	PIN, CONNECTOR 3P		R706	I-249-409-11	CARBON 220 5% 1/4W					
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R707	I-247-822-11	CARBON 430 5% 1/4W	(KV-C2161D)				
<CAPACITOR>											
C703	I-102-980-00	CERAMIC 270PF	5% 50V	R708	I-249-401-11	CARBON 390 5% 1/4W					
C704	I-102-116-00	CERAMIC 680PF	10% 50V	R709	I-202-844-00	SOLID 47 5% 1/2W					
C705	I-102-976-00	CERAMIC 180PF	5% 50V	R710	I-215-469-00	METAL 330K 10% 1/4W					
(KV-C2161D)											
(KV-C2561D, C2961D)											
(KV-C2161D)											
(KV-C2561D, C2961D)											
C706	I-102-116-00	CERAMIC 680PF	10% 50V	R711	I-249-426-11	CARBON 5.6K 5% 1/4W					
C707	I-162-116-00	CERAMIC 680PF	10% 2KV	R712	I-249-417-11	CARBON 1K 5% 1/4W					
C708	I-162-114-00	CERAMIC 0.0047MF	2KV	R713	I-215-474-00	METAL 160K 1% 1/4W					
C709	I-102-116-00	CERAMIC 680PF	10% 50V	R714	I-215-471-00	METAL 120K 1% 1/4W					
(KV-C2161D)											
(KV-C2561D, C2961D)											
C710	I-123-947-00	ELECT 10MF	20% 250V	R715	I-216-486-00	METAL OXIDE 8.2K 5% 3W F					
C711	I-101-880-00	CERAMIC 47PF	5% 50V	R716	I-202-824-00	SOLID 3.3K 10% 1/2W					
C712	I-102-980-00	CERAMIC 270PF	5% 50V	R717	I-249-409-11	CARBON 220 5% 1/4W					
C714	I-124-360-00	ELECT 1000MF	20% 16V								
C716	I-162-622-11	CERAMIC 330PF	10% 400V								

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R717	1-249-415-11	CARBON	680 5% 1/4W	C023	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R718	1-202-814-11	SOLID	33K 20% 1/2W	C024	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R719	1-249-401-11	CARBON	47 5% 1/4W	C027	1-124-910-11	ELECT 47MF	20% 50V
R720	1-249-423-11	CARBON	3.3K 5% 1/4W	C030	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R721	1-202-842-11	SOLID	220K 20% 1/2W	C031	1-163-081-00	CERAMIC CHIP 0.22MF	25V
R722	1-202-848-00	SOLID	680K 10% 1/2W	C032	1-163-081-00	CERAMIC CHIP 0.22MF	25V
R723	1-249-417-11	CARBON	1K 5% 1/4W	C033	1-163-181-00	CERAMIC CHIP 100PF	5% 50V
R724	1-202-846-00	SOLID	470K 20% 1/2W	C034	1-124-907-11	ELECT 10MF	20% 50V
R725	1-202-838-00	SOLID	100K 20% 1/2W	C251	1-124-903-11	ELECT 1MF	20% 50V
R726	1-202-824-00	SOLID	3.3K 10% 1/2W	C252	1-126-233-11	ELECT 22MF	20% 50V
R727	1-249-409-11	CARBON	220 5% 1/4W	C253	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R728	1-216-347-11	METAL OXIDE	0.68 5% 1W F	C254	1-137-098-11	FILM 0.1MF	10% 100V
R729	1-249-416-11	CARBON	820 5% 1/4W	C255	1-124-636-00	ELECT 3300MF	20% 25V
R730	1-249-401-11	CARBON	47 5% 1/4W	C261	1-124-903-11	ELECT 1MF	20% 50V
R731	1-249-423-11	CARBON	3.3K 5% 1/4W	C262	1-126-233-11	ELECT 22MF	20% 50V
R732	1-249-415-11	CARBON	680 5% 1/4W	C263	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R733	1-249-415-11	CARBON	680 5% 1/4W	C264	1-137-098-11	FILM 0.1MF	10% 100V
R734	1-249-405-11	CARBON	100 5% 1/4W	C265	1-124-564-11	ELECT 4700MF	20% 25V
R735	1-215-493-00	METAL	1M 1% 1/4W	C270	1-137-035-11	FILM 0.47MF	10% 100V
R736	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C274	1-137-035-11	FILM 0.47MF	10% 100V
R737	I-215-483-00	METAL	390K 1% 1/4W (KV-C2161D)	C501	I-124-927-11	ELECT 4.7MF	20% 50V
	I-215-491-00	METAL	820K 1% 1/4W (KV-C2561D)	C502	I-124-927-11	ELECT 4.7MF	20% 50V
	I-215-485-00	METAL	470K 1% 1/4W (KV-C2961D)	C503	I-137-049-11	FILM 0.015MF	10% 400V
			C504	I-163-121-00	CERAMIC CHIP 150PF	5% 50V	
R739	I-249-417-11	CARBON	1K 5% 1/4W	C505	I-108-794-11	MYLAR 0.0015MF	5% 50V
			C506	I-137-102-11	FILM 0.022MF	10% 250V	
			C507	I-137-033-11	FILM 0.33MF	10% 100V	
			C508	I-137-102-11	FILM 0.022MF	10% 250V	
			C509	I-137-098-11	FILM 0.1MF	10% 100V	
<VARIABLE RESISTOR>							
RV701	I-230-641-11	RES, ADJ, METAL GLAZE	2.2M	C510	I-161-959-00	CERAMIC 22PF	10% 500V
RV702	I-230-619-11	RES, ADJ, METAL GLAZE	110M	C511	I-108-686-11	MYLAR 0.0033MF	10% 100V
RV703	I-237-749-11	RES, ADJ, CARBON	2200	C512	I-137-098-11	FILM 0.1MF	10% 100V
RV704	I-237-749-11	RES, ADJ, CARBON	2200	C513	I-163-125-00	CERAMIC CHIP 220PF	5% 50V
			C514	I-137-031-11	FILM 0.22MF	10% 100V	

*A-1642-035-A	D BOARD, COMPLETE	(KV-C2161D)	C515	I-124-903-11	ELECT 1MF	20% 50V	
*A-1642-062-A	D BOARD, COMPLETE	(KV-C2561D)	C516	I-108-680-11	MYLAR 0.001MF	10% 100V	
*A-1642-032-A	D BOARD, COMPLETE	(KV-C2961D)	C517	I-124-252-00	ELECT 0.33MF	20% 50V	
			C518	I-124-902-00	ELECT 0.47MF	20% 50V	
			C519	I-136-173-00	FILM 0.47MF	5% 50V	
				I-136-171-00	FILM 0.33MF	5% 50V	
						(KV-C2161D, C2561D)	
*4-341-751-01	EYELET		C520	I-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	
*4-341-752-01	EYELET		C521	I-137-098-11	FILM 0.1MF	10% 100V	
*4-368-683-01	SPRING		C522	I-124-122-11	ELECT 100MF	20% 50V	
			C523	I-108-680-11	MYLAR 0.001MF	10% 100V	
			C524	I-108-798-11	MYLAR 0.0033MF	5% 50V	
			C525	I-163-117-00	CERAMIC CHIP 100PF	5% 50V	
			C526	I-163-103-00	CERAMIC CHIP 27PF	5% 50V	
<CAPACITOR>							
C002	I-163-205-00	CERAMIC CHIP 0.001MF	5% 50V				
C003	I-124-925-11	ELECT	2.2MF 20% 50V				
C004	I-124-120-11	ELECT	220MF 20% 16V				
C005	I-124-903-11	ELECT	1MF 20% 50V				
C008	I-163-117-00	CERAMIC CHIP 100PF	5% 50V	I-163-101-00	CERAMIC CHIP 22PF		
						(KV-C2161D, C2561D)	
						5% 50V	
						(KV-C2961D)	
C009	I-163-117-00	CERAMIC CHIP 100PF	5% 50V	C527	I-137-098-11	FILM 0.1MF	10% 50V
C010	I-124-120-11	ELECT	220MF 20% 16V	C531	I-124-190-00	ELECT 680MF	20% 50V
C011	I-163-031-11	CERAMIC CHIP 0.01MF	50V	C532	I-124-122-11	ELECT 100MF	20% 50V
C013	I-137-098-11	FILM	0.1MF 10% 100V	C533	I-137-096-11	FILM 0.068MF	10% 100V
C014	I-137-098-11	FILM	0.1MF 10% 100V	C534	I-124-120-11	ELECT 220MF	20% 16V
			C536	I-131-363-00	TANTALUM 4.7MF	10% 16V	
						(KV-C2161D)	
C015	I-124-902-00	ELECT	0.47MF 20% 50V				
C016	I-163-141-00	CERAMIC CHIP 0.001MF	5% 50V				
C017	I-137-098-11	FILM	0.1MF 10% 100V				
C018	I-163-127-00	CERAMIC CHIP 270PF	5% 50V	I-131-365-00	TANTALUM 10MF		
C019	I-137-094-11	FILM	0.047MF 10% 100V	C537	I-124-903-11	ELECT 1MF	
			C538	I-108-680-11	MYLAR 0.001MF		
			C539	I-163-129-00	CERAMIC CHIP 330PF 5% 50V		
C021	I-163-117-00	CERAMIC CHIP 100PF	5% 50V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C540	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C818 △ 1-129-721-51	FILM 0.039MF 10% 630V
C592	1-124-122-11	ELECT	100MF	20%	50V	C819 △ 1-161-731-51	CERAMIC 0.001MF 10% 2KV
C593	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	C820 △ 1-137-046-11	FILM 0.0082MF 10% 400V
C601 △	1-161-964-61	CERAMIC CHIP	0.0047MF	250V		C821 △ 1-162-116-51	CERAMIC 680PF 10% 2KV
C602 △	1-161-964-61	CERAMIC CHIP	0.0047MF	250V			(KV-C2161D, C2561D)
C603 △	1-161-964-61	CERAMIC CHIP	0.0047MF	250V	△ 1-162-134-51	CERAMIC 470PF 10% 2KV	
C604 △	1-125-318-11	ELECT(BLOCK)	220MF	20%	400V		(KV-C2961D)
C605	1-124-484-11	ELECT	220MF	20%	35V	C822	1-163-005-11 CERAMIC CHIP 470PF 10% 50V
C606	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	C823	1-137-043-11 FILM 0.0047MF 10% 400V
C607	1-137-028-11	FILM	1MF	10%	63V	C824	1-102-212-00 CERAMIC 820PF 10% 500V
C608	1-124-927-11	ELECT	4.7MF	20%	50V	C825	1-137-102-11 FILM 0.022MF 10% 250V
C611	1-124-910-11	ELECT	47MF	20%	50V	C1601 △	1-136-518-11 FILM 0.33MF 20% 300V
C612	1-108-680-11	MYLAR	0.001MF	10%	100V	C1602 △	1-136-519-11 FILM 0.47MF 20% 300V
C613	1-136-539-11	FILM	0.0022MF	3%	2KV	C1603 △	1-164-246-61 CERAMIC 0.0022MF 20% 400V
C614	1-102-030-00	CERAMIC	330PF	10%	500V	C1605 △	1-164-246-61 CERAMIC 0.0022MF 20% 400V
C615	1-128-142-11	ELECT	1500MF	20%	25V	C1607 △	1-161-964-61 CERAMIC 0.0047MF 250V
C616	1-102-030-00	CERAMIC	330PF	10%	500V		<FILTER>
C617	1-124-120-11	ELECT	220MF	20%	25V	CF001	1-577-364-11 VIBRATOR, CERAMIC
					(KV-C2161D)	CF501	1-567-888-11 OSCILLATOR, CERAMIC
C618	1-162-115-00	CERAMIC	330PF	10%	2KV		<CONNECTOR>
C619	1-128-320-11	ELECT	2200MF	20%	16V	D1	*1-568-881-51 PIN, CONNECTOR 6P
					(KV-C2161D, C2961D)	D2	*1-568-882-51 PIN, CONNECTOR 7P
	1-124-556-11	ELECT	2200MF	20%	16V	D11	*1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
C620	1-137-028-11	FILM	1MF	10%	63V	D12	*1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
	1-136-173-00	FILM	0.47MF	5%	50V	D18	*1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)
							(KV-C2161D, C2961D)
C621	1-124-347-00	ELECT	100MF	20%	160V	D21	*1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
C622	1-128-320-11	ELECT	2200MF	20%	16V	D22	*1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
C623	1-124-910-11	ELECT	47MF	20%	50V	D31	*1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
C624	1-124-122-11	ELECT	100MF	20%	50V	D32	*1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
C625	1-124-360-00	ELECT	1000MF	20%	16V	D33	*1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
C626	1-124-907-11	ELECT	10MF	20%	50V	D41	*1-566-367-11 CONNECTOR, HINGE (RECEPTACE)
C627	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D44	*1-568-881-51 PIN, CONNECTOR 6P
C631	1-124-927-11	ELECT	4.7MF	20%	50V	D45	*1-568-881-51 PIN, CONNECTOR 6P
C632	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D51	*1-566-367-11 CONNECTOR, HINGE (RECEPTACE)
C633	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	D62	*1-565-395-11 PIN, CONNECTOR 3P
C801	1-126-105-11	ELECT	1000MF	20%	35V	D65	*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
C802	1-102-030-00	CERAMIC	330PF	10%	500V	D66	*1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P
C804	1-123-948-00	ELECT	22MF	20%	250V	D82	*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
C805	1-162-114-00	CERAMIC	0.0047MF		2KV	D83	*1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P
C806	1-137-098-11	FILM	0.1MF	10%	100V	D84	*1-580-798-11 CONNECTOR PIN (DY) 6P
C807	1-106-395-00	MYLAR	0.15MF	10%	200V	D88	*1-568-878-51 PIN, CONNECTOR 3P (KV-C2961D)
C810	1-123-024-21	ELECT	33MF		160V	D801	*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
C811	1-136-111-00	FILM	1MF	5%	200V		<DIODE>
					(KV-C2161D)		
	1-136-113-00	FILM	2MF	5%	200V		
					(KV-C2561D, C2961D)		
C812	1-124-634-11	ELECT	1MF	20%	250V	D001	8-719-109-97 DIODE RD6.8ES-B2
C813	1-102-212-00	CERAMIC	820PF	10%	500V	D002	8-719-109-97 DIODE RD6.8ES-B2
C814 △	1-161-731-51	CERAMIC	0.001MF	10%	2KV	D003	8-719-911-19 DIODE ISS119
C815	1-136-111-00	FILM	1MF	5%	200V	D005	8-719-109-89 DIODE RD5.6ES-B2
						D006	8-719-982-24 DIODE MTZJ-33A
					(KV-C2161D, C2561D)		
	1-136-540-11	FILM	0.82MF	5%	200V	D007	8-719-982-08 DIODE MTZJ-3.9B
					(KV-C2961D)	D009	8-719-109-89 DIODE RD5.6ES-B2
						D010	8-719-921-54 DIODE MTZJ-6.2B
					(KV-C2161D)	D011	8-719-921-54 DIODE MTZJ-6.2B
						D012	8-719-911-19 DIODE ISS119
	△ 1-136-565-11	FILM	0.015MF	3%	1.4KV	D013	8-719-109-97 DIODE RD6.8ES-B2
					(KV-C2561D)	D271	8-719-110-31 DIODE RD12ES-B2 (KV-C2161, C2561D)
	△ 1-136-591-11	FILM	0.017MF	3%	1.4KV	D272	8-719-911-19 DIODE MTZJ-13B (KV-C2961D)
					(KV-C2961D)	D273	8-719-911-19 DIODE ISS119

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q604	8-729-216-22	TRANSISTOR 2SA1162-G		R051	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R052	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R053	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF		R054	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R055	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q609	8-729-320-62	TRANSISTOR 2SD789-34		R056	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R057	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R058	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK		R059	1-216-049-00	METAL GLAZE	1K 5% 1/10W
<RESISTOR>							
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W		R060	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W		R061	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W		R062	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR7	1-216-296-00	METAL GLAZE 0 5% 1/8W		R063	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R001	1-216-041-00	METAL GLAZE 470 5% 1/10W		R064	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R002	1-216-041-00	METAL GLAZE 470 5% 1/10W		R065	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R003	1-216-198-00	METAL GLAZE 1K 5% 1/8W		R066	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R004	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R067	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R005	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R068	1-216-174-00	METAL GLAZE	100 5% 1/8W
R006	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R069	1-216-174-00	METAL GLAZE	100 5% 1/8W
R007	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R070	1-216-198-00	METAL GLAZE	1K 5% 1/8W
R008	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R071	1-216-198-00	METAL GLAZE	1K 5% 1/8W
R009	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R072	1-216-222-00	METAL GLAZE	10K 5% 1/8W
R010	1-216-041-00	METAL GLAZE 470 5% 1/10W		R073	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R012	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R075	1-216-041-00	METAL GLAZE	470 5% 1/10W
R013	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R076	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R014	1-216-085-00	METAL GLAZE 33K 5% 1/10W		R077	1-216-049-00	METAL GLAZE	1K 5% (KV-C2161D,C2961D)
R015	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		R078	1-216-198-00	METAL GLAZE	1K 5% 1/8W
R016	1-216-085-00	METAL GLAZE 33K 5% 1/10W		R079	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R017	1-216-689-11	METAL GLAZE 39K 5% 1/10W		R080	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R018	1-216-095-00	METAL GLAZE 82K 5% 1/10W		R081	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R019	1-216-025-00	METAL GLAZE 100 5% 1/10W		R083	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R020	1-216-025-00	METAL GLAZE 100 5% 1/10W		R084	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R021	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R085	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R022	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R086	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R024	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R087	1-216-035-00	METAL GLAZE	270 5% 1/10W
R025	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R088	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R026	1-216-182-00	METAL GLAZE 220 5% 1/8W		R093	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R027	1-216-025-00	METAL GLAZE 100 5% 1/10W		R094	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R028	1-216-025-00	METAL GLAZE 100 5% 1/10W		R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R029	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R096	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R030	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R098	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R031	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R032	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R252	1-216-039-00	METAL GLAZE	390 5% 1/10W
R033	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R034	1-216-077-00	METAL GLAZE 15K 5% 1/10W		R254	1-216-357-00	METAL OXIDE	4.7 5% F
R035	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R255	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R036	1-216-083-00	METAL GLAZE 27K 5% 1/10W		R256	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R037	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W		R257	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R038	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W		R258	1-215-869-11	METAL OXIDE	1K 5% 1W F
R039	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R040	1-216-077-00	METAL GLAZE 15K 5% 1/10W		R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R041	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R262	1-216-039-00	METAL GLAZE	390 5% 1/10W
R042	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R263	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R043	1-216-041-00	METAL GLAZE 470 5% 1/10W		R264	1-216-357-00	METAL OXIDE	4.7 5% 1W
R044	1-216-097-00	METAL GLAZE 100K 5% 1/10W		R265	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R045	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		R266	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R046	1-216-095-00	METAL GLAZE 82K 5% 1/10W		R267	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R047	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R268	1-215-869-11	METAL OXIDE	1K 5% 1W F
R048	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R269	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R049	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R270	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R050	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		R271	1-216-045-00	METAL GLAZE	680 5% 1/10W
				R272	1-216-073-00	METAL GLAZE	10K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R273	I-216-073-00	METAL GLAZE	10K 5% 1/10W	R549	I-216-454-11	METAL OXIDE	390 5% 2W F (KV-C2561D, C2961D)
R274	I-216-073-00	METAL GLAZE	10K 5% 1/10W	R550	I-216-095-00	METAL GLAZE	82K 5% 1/10W
R500	I-216-115-00	METAL GLAZE	560K 5% 1/10W	R551	I-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R501	I-216-041-00	METAL GLAZE	470 5% 1/10W	R552	I-216-433-00	METAL OXIDE	1.2K 5% 1W F
R502	I-216-033-00	METAL GLAZE	220 5% 1/10W				
R503	I-216-035-00	METAL GLAZE	270 5% 1/10W	R553	I-215-869-11	METAL OXIDE	1K 5% 1W (KV-C2161D)
R504	I-249-420-11	CARBON	1.8K 5% 1/4W	R554	I-216-037-00	METAL GLAZE	330 5% 1/10W
R505	I-216-077-00	METAL GLAZE	15K 5% 1/10W	R555	I-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R506	I-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R556	I-216-025-00	METAL GLAZE	100 5% 1/10W
R509	I-216-063-00	METAL GLAZE	3.9K 5% 1/10W				
R510	I-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R557	I-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R514	I-216-033-00	METAL GLAZE	220 5% 1/10W	R558	I-216-113-00	METAL GLAZE	470K 5% 1/10W
R515	I-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R559	I-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R517	I-216-073-00	METAL GLAZE	10K 5% 1/10W	R560	I-216-037-00	METAL GLAZE	330 5% 1/10W
R518	I-216-089-00	METAL GLAZE	47K 5% 1/10W	R561	I-216-107-00	METAL GLAZE	270K 5% 1/10W
R519	I-216-081-00	METAL GLAZE	22K 5% 1/10W				
R520	I-216-037-00	METAL GLAZE	330 5% 1/10W	R570	I-216-045-00	METAL GLAZE	680 5% 1/10W (KV-C2961D)
R521	I-216-025-00	METAL GLAZE	100 5% 1/10W	R591	I-216-047-00	METAL GLAZE	820 5% 1/10W (KV-C2961D)
R522	I-215-469-00	METAL	100K 1% 1/4W	R592	I-216-049-00	METAL GLAZE	1K 5% 1/10W
R523	I-216-049-00	METAL GLAZE	1K 5% 1/10W	R593	I-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R524	I-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R594	I-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R525	I-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-C2161D, C2561D)	R597	I-216-041-00	METAL GLAZE	470 5% 1/10W
R526	I-249-409-11	CARBON	220 5% 1/4W F	R598	I-215-900-11	METAL OXIDE	22K 5% 2W F
R527	I-216-077-00	METAL GLAZE	15K 5% 1/10W	R600	I-249-381-11	CARBON	1 5% 1/4W
R528	I-216-031-00	METAL GLAZE	180 5% 1/10W				
R529	I-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R601	I-216-353-00	METAL OXIDE	2.2 5% 1W F (KV-C2561D, C2961D)
R530	I-249-448-11	CARBON	1.2 5% 1/4W F	R603	I-215-906-11	METAL OXIDE	15 5% 3W F (KV-C2161D)
R531	I-216-099-00	METAL GLAZE	120K 5% 1/10W (KV-C2561D, C2961D)		I-216-469-11	METAL OXIDE	12 5% 3W F
R532	I-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-C2561D, C2961D)				
R533	I-216-031-00	METAL GLAZE	180 5% 1/10W (KV-C2161D)	R604	I-216-025-00	METAL GLAZE	100 5% 1/10W
	I-216-295-00	METAL GLAZE	0 5% 1/10W	R605	I-216-081-00	METAL GLAZE	22K 5% 1/10W
R534	I-216-119-00	METAL GLAZE	820K 5% 1/10W (KV-C2561D, C2961D)	R606	I-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R535	I-249-753-15	CARBON	4.7M 5% 1/4W (KV-C2161D)	R607	I-216-065-00	METAL GLAZE	4.7K 5% 1/10W
	I-249-749-00	CARBON	2.2M 5% 1/4W				
R536	I-216-129-00	METAL GLAZE	2.2M 5% 1/10W (KV-C2561D, C2961D)	R608	I-216-488-11	METAL OXIDE	18K 5% 3W F (KV-C2161D)
R537	I-216-083-00	METAL GLAZE	27K 5% 1/10W	R609	I-216-007-00	METAL GLAZE	18 5% 1/10W
R538	I-216-101-00	METAL GLAZE	150K 5% 1/10W	R610	I-244-941-00	CARBON	680K 5% 1/2W
R539	I-216-101-00	METAL GLAZE	150K 5% 1/10W	R611	I-216-015-00	METAL GLAZE	39 5% 1/10W
R540	I-216-013-00	METAL GLAZE	33 5% 1/10W	R612	I-216-049-00	METAL GLAZE	1K 5% 1/10W
R541	I-216-091-00	METAL GLAZE	56K 5% 1/10W	R613	I-216-097-00	METAL GLAZE	100K 5% 1/10W
R542	I-216-308-00	METAL GLAZE	4.7 5% 1/10W	R614	I-205-758-11	WIREWOUND	100 10% 10W F
R543	I-249-451-11	CARBON	2.2 5% 1/4W	R616	I-216-099-00	METAL GLAZE	120K 5% 1/10W
R544	I-247-745-11	CARBON	330 5% 1/2W	R617	I-216-037-00	METAL GLAZE	330 5% 1/10W
R545	I-216-689-11	METAL GLAZE	39K 5% 1/10W (KV-C2161D)	R618	I-216-431-11	METAL OXIDE	560 5% 1W F
	I-216-081-00	METAL GLAZE	22K 5% 1/10W	R619	I-216-073-00	METAL GLAZE	10K 5% 1/10W
R546	I-216-083-00	METAL GLAZE	27K 5% 1/10W (KV-C2561D, C2961D)	R620	I-216-081-00	METAL GLAZE	22K 5% 1/10W
R547	I-216-067-00	METAL GLAZE	5.6K 5% 1/10W (KV-C2161D)	R621	I-216-077-00	METAL GLAZE	15K 5% 1/10W
	I-216-061-00	METAL GLAZE	3.3K 5% 1/10W (KV-C2161D)	R622	I-216-073-00	METAL GLAZE	10K 5% 1/10W
R548	I-216-350-11	METAL OXIDE	1.2 5% 1W F (KV-C2561D, C2961D)	R623	I-216-081-00	METAL GLAZE	22K 5% 1/10W
	I-216-349-00	METAL OXIDE	1 5% 1W F (KV-C2161D)	R624	I-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R549	I-215-890-11	METAL OXIDE	470 5% 2W F (KV-C2161D)	R625	I-215-865-11	METAL OXIDE	220 5% 1W F (KV-C2161D, C2561D)
				R626	I-216-037-00	METAL GLAZE	330 5% 1/10W
				R627	I-216-001-00	METAL GLAZE	10 5% 1/10W
				R628	I-216-037-00	METAL GLAZE	330 5% 1/10W
				R629	I-216-465-11	METAL OXIDE	27K 5% 2W F
				R630	I-216-049-00	METAL GLAZE	1K 5% 1/10W
				R631	I-216-430-11	METAL OXIDE	390 5% 1W F

D VM V

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

KV-C2161D/C2561D/C2961D

RM-810

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
<CAPACITOR>								
C1	I-126-101-11	ELECT	100MF	20%	16V	Q1	8-729-900-53	TRANSISTOR DTC114EK
C2	I-163-038-00	CERAMIC CHIP	0.1MF		25V	Q2	8-729-920-92	TRANSISTOR 2SD2096-BF
C3	I-124-120-11	ELECT	220MF	20%	16V	Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C4	I-163-077-00	CERAMIC CHIP	0.1MF		50V	Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C5	I-124-120-11	ELECT	220MF	20%	16V	Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6
C6	I-163-038-00	CERAMIC CHIP	0.1MF		25V	Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6
C7	I-163-235-11	CERAMIC CHIP	22PF	5%	50V	Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6
C8	I-163-235-11	CERAMIC CHIP	22PF	5%	(KV-C2561D)	Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C9	I-163-235-11	CERAMIC CHIP	22PF	5%	50V	<RESISTOR>		
C10	I-163-038-00	CERAMIC CHIP	0.1MF		25V	JR01	1-216-295-00	METAL GLAZE 0 5% 1/10W
C11	I-163-038-00	CERAMIC CHIP	0.1MF		25V	JR02	1-216-295-00	METAL GLAZE 0 5% 1/10W
C12	I-163-038-00	CERAMIC CHIP	0.1MF		25V	JR03	1-216-295-00	METAL GLAZE 0 5% 1/10W
C13	I-163-038-00	CERAMIC CHIP	0.1MF		25V	JR08	1-216-295-00	METAL GLAZE 0 5% 1/10W
C14	I-124-927-11	ELECT	4.7MF	20%	50V	JR09	1-216-295-00	METAL GLAZE 0 5% 1/10W
C15	I-126-233-11	ELECT	22MF	20%	50V	JR11	1-216-295-00	METAL GLAZE 0 5% 1/10W
C16	I-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W
C17	I-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	JR17	1-216-295-00	METAL GLAZE 0 5% 1/10W
C18	I-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	JR18	1-216-296-00	METAL GLAZE 0 5% 1/8W
C26	I-163-038-00	CERAMIC CHIP	0.1MF		25V	JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W
C27	I-163-117-00	CERAMIC CHIP	100PF	5%	50V	JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W
C28	I-163-117-00	CERAMIC CHIP	100PF	5%	50V	JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W
C29	I-163-117-00	CERAMIC CHIP	100PF	5%	50V	JR23	1-216-295-00	METAL GLAZE 0 5% 1/10W
C32	I-163-038-00	CERAMIC CHIP	0.1MF		25V	JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W
C33	I-163-038-00	CERAMIC CHIP	0.1MF		25V	JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W
<CONNECTOR>								
CNV1	*I-565-393-11	CONNECTOR, BOARD TO BOARD						
CNV2	*I-565-393-11	CONNECTOR, BOARD TO BOARD						
<DIODE>								
D1	8-719-105-91	DIODE RD5.6M-B2						
D3	8-719-914-44	DIODE DAP202K (KV-C2161D, C2961D)						
	8-719-104-34	DIODE IS2836 (KV-C2561D)						
D4	8-719-400-18	DIODE MA152WK						
D5	8-719-914-44	DIODE DAP202K (KV-C2161D, C2961D)						
	8-719-104-34	DIODE IS2836 (KV-C2561D)						
D6	8-719-400-18	DIODE MA152WK						
D7	8-719-105-52	DIODE RD3.6M-B2						
D9	8-719-106-17	DIODE RD6.8M-B2						
<IC>								
IC1	8-759-039-18	IC SDA20162-B002						
IC2	8-759-045-54	IC SAA5246P/E/M4A						
IC3	8-759-510-49	IC FCB61C65L-70P						
<COIL>								
L1	I-408-403-00	INDUCTOR	3.3UH			R16	1-216-013-00	METAL GLAZE 33 5% 1/10W
L2	I-408-407-00	INDUCTOR	6.8UH			R17	1-216-013-00	METAL GLAZE 33 5% 1/10W
L3	I-408-407-00	INDUCTOR	6.8UH			R18	1-216-025-00	METAL GLAZE 100 5% 1/10W
L4	I-408-407-00	INDUCTOR	6.8UH			R19	1-216-025-00	METAL GLAZE 100 5% 1/10W
						R20	1-216-041-00	METAL GLAZE 470 5% 1/10W
<IC LINK>								
PS1	A 1-532-679-91	LINK, IC 0.6A						

V H2 H1 J1

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R26	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C1655	1-102-074-00	CERAMIC	0.001MF	10%	50V
R27	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W			<CONNECTOR>			
R28	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	H1-1	*1-568-881-51	PIN, CONNECTOR 6P			
R34	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	H1-02	*1-568-678-11	TERMINAL BLOCK, S 3P			
R35	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	H1-4	*1-568-879-51	PIN, CONNECTOR 4P			
R40	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	H1-05	*1-562-837-11	JACK			
R41	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	H1-23	*1-568-879-51	PIN, CONNECTOR 4P			
R42	1-216-049-00	METAL GLAZE	1K	5%	1/10W	H1-26	*1-568-877-51	PIN, CONNECTOR 2P (KV-C2961D)			
R44	1-216-295-00	METAL GLAZE	0	5%	1/10W	H1-43	*1-564-512-11	PLUG, CONNECTOR 9P			
R46	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W			<RESISTOR>			
R47	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1651	1-249-413-11	CARBON	470	5%	1/4W
R49	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R1652	1-249-413-11	CARBON	470	5%	1/4W
R50	1-216-296-00	METAL GLAZE	0	5%	1/8W			<VARIABLE RESISTOR>			
<CRYSTAL>											
X1	1-579-266-31	CRYSTAL VIBRATOR				S1651	1-571-532-21	SWITCH, TACTIL			
X2	1-577-364-11	VIBRATOR, CERAMIC				S1652	1-571-532-21	SWITCH, TACTIL			
S1653	1-571-532-21	SWITCH, TACTIL									

*1-638-392-11	H2 BOARD (KV-C2161D,C2961D)					*A-1651-018-A	J1 BOARD, COMPLETE (KV-C2161D)				
*****							*****				
*1-638-745-11	H2 BOARD (KV-C2561D)					*A-1651-023-A	J1 BOARD, COMPLETE (KV-C2561D)				
*****							*****				
*4-374-987-01	GUIDE, LIGHT					*A-1651-038-A	J1 BOARD, COMPLETE (KV-C2961D)				
*4-381-686-01	BRACKET (B), LIGHT GUIDE						*****				
<DIODE>											
D1651	8-719-948-31	DIODE LD-201VR				C203	1-124-925-11	ELECT	2.2MF	20%	50V
	*4-201-076-01	HOLDER, LED; D1651				C205	1-124-927-11	ELECT	4.7MF	20%	50V
D1652	8-719-948-31	DIODE LD-201VR				C206	1-124-925-11	ELECT	2.2MF	20%	50V
	*4-201-076-01	HOLDER, LED; D1652				C207	1-124-927-11	ELECT	4.7MF	20%	50V
D1654	8-719-948-31	DIODE LD-201VR				C213	1-126-233-11	ELECT	22MF	20%	50V
	*4-201-076-01	HOLDER, LED; D1654				C214	1-137-045-11	FILM	0.0068MF	10%	400V
<CONNECTOR>											
H2-2	*1-568-882-51	PIN, CONNECTOR 7P				C217	1-137-045-11	FILM	0.0068MF	10%	400V
						C218	1-137-102-11	FILM	0.022MF	10%	250V
						C219	1-137-102-11	FILM	0.022MF	10%	250V
						C220	1-108-686-11	MYLAR	0.0033MF	10%	100V
<IC>											
IC1651	8-741-101-75	IC SBX1610-11				C221	1-108-686-11	MYLAR	0.0033MF	10%	100V
						C222	1-137-095-11	FILM	0.056MF	10%	100V
						C223	1-137-095-11	FILM	0.056MF	10%	100V
						C224	1-137-047-11	FILM	0.01MF	10%	400V
						C225	1-136-173-00	FILM	0.47MF	5%	50V
<RESISTOR>											
R1662	1-249-413-11	CARBON	470	5%	1/4W	C226	1-136-173-00	FILM	0.47MF	5%	50V
						C227	1-137-102-11	FILM	0.022MF	10%	250V
						C228	1-137-104-11	FILM	0.033MF	10%	250V
						C229	1-137-049-11	FILM	0.015MF	10%	400V
						C230	1-137-049-11	FILM	0.015MF	10%	400V

*1-638-391-11	H1 BOARD (KV-C2161D,C2961D)					C231	1-124-902-00	ELECT	0.47MF	20%	50V
	*****					C232	1-124-907-11	ELECT	10MF	20%	50V
*1-638-744-11	H1 BOARD (KV-C2561D)					C233	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
	*****					C234	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C235	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
<CAPACITOR>											
C1651	1-102-106-00	CERAMIC	100PF	10%	50V	C236	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1652	1-102-106-00	CERAMIC	100PF	10%	50V	C237	1-124-902-00	ELECT	0.47MF	20%	50V
C1653	1-102-074-00	CERAMIC	0.001MF	10%	50V	C238	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
						C239	1-126-103-11	ELECT	470MF	20%	16V
						C240	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
C242	I-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-43	*I-564-524-11	PLUG, CONNECTOR 9P			
C243	I-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-44	*I-564-527-11	PLUG, CONNECTOR 12P			
C244	I-163-033-00	CERAMIC CHIP 0.022MF	50V	J1-51	*I-566-641-11	CONNECTOR, HINGE (TAB) 18P			
C245	I-163-033-00	CERAMIC CHIP 0.022MF	50V						
CI401	I-124-907-11	ELECT 10MF	20% 50V						
CI402	I-126-103-11	ELECT 470MF	20% 16V						
CI403	I-163-003-11	CERAMIC CHIP 330PF	10% 50V	D201	8-719-110-14	DIODE RD9.1ES-B3			
CI404	I-137-098-11	FILM 0.1MF	10% 100V	D202	8-719-110-14	DIODE RD9.1ES-B3			
CI405	I-163-029-11	CERAMIC CHIP 0.0047MF	50V	D205	8-719-110-03	DIODE RD7.5ES-B2			
CI406	I-137-098-11	FILM 0.1MF	10% 100V	D206	8-719-110-03	DIODE RD7.5ES-B2			
CI407	I-124-910-11	ELECT 47MF	20% 50V	D1401	8-719-110-03	DIODE RD7.5ES-B2			
CI408	I-124-122-11	ELECT 100MF	20% 50V						
CI409	I-126-233-11	ELECT 22MF	20% 50V	D1403	8-719-110-03	DIODE RD7.5ES-B2			
CI410	I-124-907-11	ELECT 10MF	20% 50V	D1404	8-719-110-03	DIODE RD7.5ES-B2			
CI411	I-124-907-11	ELECT 10MF	20% 50V	D1405	8-719-110-03	DIODE RD7.5ES-B2			
CI412	I-124-910-11	ELECT 47MF	20% 50V	D1406	8-719-110-03	DIODE RD7.5ES-B2			
CI413	I-124-910-11	ELECT 47MF	20% 50V	D1407	8-719-921-77	DIODE MTZN-10C			
CI414	I-124-907-11	ELECT 10MF	20% 50V						
CI415	I-137-098-11	FILM 0.1MF	10% 100V	D1408	8-719-110-14	DIODE RD9.1ES-B3			
CI416	I-137-098-11	FILM 0.1MF	10% 100V	D1409	8-719-110-14	DIODE RD9.1ES-B3			
CI417	I-124-120-11	ELECT 220MF	20% 16V	D1410	8-719-110-14	DIODE RD9.1ES-B3			
CI418	I-163-003-11	CERAMIC CHIP 330PF	10% 50V	D1411	8-719-110-03	DIODE RD7.5ES-B2			
CI419	I-163-003-11	CERAMIC CHIP 330PF	10% 50V	D1412	8-719-110-03	DIODE RD7.5ES-B2			
CI420	I-124-902-00	ELECT 0.47MF	20% 50V	D1413	8-719-110-03	DIODE RD7.5ES-B2			
CI421	I-124-902-00	ELECT 0.47MF	20% 50V	D1414	8-719-110-03	DIODE RD7.5ES-B2			
CI422	I-124-902-00	ELECT 0.47MF	20% 50V	D1415	8-719-110-03	DIODE RD7.5ES-B2			
CI423	I-163-029-11	CERAMIC CHIP 0.0047MF	50V	D1416	8-719-110-03	DIODE RD7.5ES-B2			
CI424	I-163-029-11	CERAMIC CHIP 0.0047MF	50V	D1417	8-719-110-03	DIODE RD7.5ES-B2			
CI425	I-163-029-11	CERAMIC CHIP 0.0047MF	50V	D1418	8-719-110-03	DIODE RD7.5ES-B2			
CI426	I-163-003-11	CERAMIC CHIP 330PF	10% 50V	D1419	8-719-110-03	DIODE RD7.5ES-B2			
CI427	I-126-529-11	ELECT 0.47MF	20% 50V	D1420	8-719-110-03	DIODE RD7.5ES-B2			
CI428	I-124-902-00	ELECT 0.47MF	20% 50V	D1421	8-719-110-03	DIODE RD7.5ES-B2			
CI429	I-124-122-11	ELECT 100MF	20% 50V	D1422	8-719-110-03	DIODE RD7.5ES-B2			
CI430	I-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D1423	8-719-110-03	DIODE RD7.5ES-B2			
CI431	I-137-047-11	FILM 0.01MF	10% 400V	D1424	8-719-110-03	DIODE RD7.5ES-B2			
CI432	I-124-902-00	ELECT 0.47MF	20% 50V	D1425	8-719-110-03	DIODE RD7.5ES-B2			
CI433	I-124-907-11	ELECT 10MF	20% 50V	D1426	8-719-110-03	DIODE RD7.5ES-B2			
CI434	I-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D1501	8-719-300-33	DIODE RU-3AM			
CI435	I-137-047-11	FILM 0.01MF	10% 400V	D1502	8-719-911-19	DIODE ISS119			
CI436	I-124-907-11	ELECT 10MF	20% 50V	D1503	8-719-911-19	DIODE ISS119			
CI437	I-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D1504	8-719-911-19	DIODE ISS119			
CI438	I-137-047-11	FILM 0.01MF	10% 400V	D1505	8-719-911-19	DIODE ISS119			
CI439	I-137-047-11	FILM 0.01MF	10% 400V	D1506	8-719-982-33	DIODE MTZJ-36D			
CI440	I-124-907-11	ELECT 10MF	20% 50V	D1507	8-719-911-19	DIODE ISS119			
CI441	I-124-907-11	ELECT 10MF	20% 50V						
CI442	I-137-098-11	FILM 0.1MF	10% 100V	D1510	8-719-911-19	DIODE ISS119			
CI443	I-137-098-11	FILM 0.1MF	10% 100V						
CI444	I-124-910-11	ELECT 47MF	20% 50V						
CI445	I-102-824-00	CERAMIC 470PF	5% 50V	IC201	8-759-013-17	IC TDA6200			
CI446	I-102-824-00	CERAMIC 470PF	5% 50V	IC1401	8-752-032-27	IC CXA1114P			
CI501	I-124-927-11	ELECT 4.7MF	20% 50V	IC1402	8-759-946-32	IC TEA2014A			
CI502	I-124-903-11	ELECT 1MF	20% 50V	IC1403	8-759-140-53	IC UPD4053BC			
CI503	I-108-680-11	MYLAR 0.001MF	10% 100V	IC1501	8-759-942-16	IC TEA2031A			
CI504	I-124-910-11	ELECT 47MF	20% 50V						
CI505	I-137-094-11	FILM 0.047MF	10% 100V						
CI507	I-108-686-11	MYLAR 0.0033MF	10% 100V						
CI508	I-124-903-11	ELECT 1MF	20% 50V	J1402	I-561-534-41	SOCKET 21P			
CI509	I-124-903-11	ELECT 1MF	20% 50V	J1403	I-561-534-41	SOCKET 21P			
CI511	I-124-927-11	ELECT 4.7MF	20% 50V						
CI512	I-137-045-11	FILM 0.0068MF	10% 400V						
CI513	I-163-105-00	CERAMIC CHIP 33PF (KV-C2161D, C2561D)	5% 50V						
CI514	I-137-102-11	FILM 0.022MF	10% 250V	Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
CI515	I-102-117-00	CERAMIC 820PF (KV-C2161D, C2561D)	10% 50V	Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
				Q1401	8-729-216-22	TRANSISTOR 2SA1162-G			
				Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
				Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
				Q1404	8-729-216-22	TRANSISTOR 2SA1162-G			
<CONNECTOR>									
<TRANSISTOR>									
<RESISTOR>									
CN1401	I-565-838-11	JACK BLOCK, PIN 2P		R201	I-216-079-00	METAL GLAZE	18K	5%	1/10W
J1-41	*I-566-641-11	CONNECTOR, HINGE (TAB) 18P		R202	I-216-206-00	METAL GLAZE	2.2K	5%	1/8W

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R203	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1420	1-216-295-00	METAL GLAZE	0 5% 1/10W
R204	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1421	1-216-295-00	METAL GLAZE	0 5% 1/10W
R205	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1422	1-216-025-00	METAL GLAZE	100 5% 1/10W
R206	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1423	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R207	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1424	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R208	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1425	1-216-045-00	METAL GLAZE	680 5% 1/10W
R209	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1426	1-216-025-00	METAL GLAZE	100 5% 1/10W
R210	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1427	1-216-001-00	METAL GLAZE	10 5% 1/10W
R211	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1428	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R212	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1429	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R213	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1430	1-216-170-00	METAL GLAZE	68 5% 1/8W
R214	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1431	1-216-041-00	METAL GLAZE	470 5% 1/10W
R215	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1432	1-216-041-00	METAL GLAZE	470 5% 1/10W
R216	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1433	1-216-033-00	METAL GLAZE	220 5% 1/10W
R217	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1434	1-249-393-11	CARBON	10 5% 1/4W F
R218	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1437	1-249-434-11	CARBON	27K 5% 1/4W
R219	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1440	1-216-045-00	METAL GLAZE	680 5% 1/10W
R220	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1441	1-216-045-00	METAL GLAZE	680 5% 1/10W
R221	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1442	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R222	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1443	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R223	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1444	1-216-033-00	METAL GLAZE	220 5% 1/10W
R224	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1445	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R225	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1446	1-216-033-00	METAL GLAZE	220 5% 1/10W
R226	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1447	1-216-033-00	METAL GLAZE	220 5% 1/10W
R227	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1448	1-216-025-00	METAL GLAZE	100 5% 1/10W
R228	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1449	1-216-023-00	METAL GLAZE	82 5% 1/10W
R229	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1450	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R230	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R1453	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R231	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1454	1-216-180-00	METAL GLAZE	180 5% 1/8W
R232	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1455	1-216-180-00	METAL GLAZE	180 5% 1/8W
R233	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1457	1-216-025-00	METAL GLAZE	100 5% 1/10W
R234	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1459	1-216-025-00	METAL GLAZE	100 5% 1/10W
R235	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1460	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R236	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1461	1-216-190-00	METAL GLAZE	470 5% 1/8W
R240	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1462	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R241	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1463	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R242	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1464	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R243	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1465	1-216-023-00	METAL GLAZE	82 5% 1/10W
R244	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1466	1-216-033-00	METAL GLAZE	220 5% 1/10W
R245	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1467	1-216-025-00	METAL GLAZE	100 5% 1/10W
R246	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1468	1-216-025-00	METAL GLAZE	100 5% 1/10W
R247	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1469	1-216-025-00	METAL GLAZE	100 5% 1/10W
R248	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1470	1-216-025-00	METAL GLAZE	100 5% 1/10W
R249	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1471	1-216-023-00	METAL GLAZE	82 5% 1/10W
R250	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1472	1-216-023-00	METAL GLAZE	82 5% 1/10W
R1400	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1473	1-216-023-00	METAL GLAZE	82 5% 1/10W
R1401	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1474	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1402	1-216-170-00	METAL GLAZE	68 5% 1/8W	R1476	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1403	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1477	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1404	1-216-178-00	METAL GLAZE	150 5% 1/8W	R1478	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1405	1-249-434-11	CARBON	27K 5% 1/4W	R1480	1-216-190-00	METAL GLAZE	470 5% 1/8W
R1407	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1482	1-216-178-00	METAL GLAZE	150 5% 1/8W
R1408	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1483	1-216-178-00	METAL GLAZE	150 5% 1/8W
R1409	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1484	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1410	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1485	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1411	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1486	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1412	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1487	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1413	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1488	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1414	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1489	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1415	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1501	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1416	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1502	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1417	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1503	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1418	1-247-738-11	CARBON	82 5% 1/2W F	R1504	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R1419	1-216-295-00	METAL GLAZE	0 5% 1/10W				

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK
R7	I-216-043-00	METAL GLAZE	560	5%	1/10W				
R9	I-216-073-00	METAL GLAZE	10K	5%	1/10W				
R11	I-216-095-00	METAL GLAZE	82K	5%	1/10W				
R12	I-216-097-00	METAL GLAZE	100K	5%	1/10W				
R13	I-216-071-00	METAL GLAZE	8.2K	5%	1/10W				
R15	I-216-059-00	METAL GLAZE	2.7K	5%	1/10W				
R16	I-216-097-00	METAL GLAZE	100K	5%	1/10W				
R17	I-216-097-00	METAL GLAZE	100K	5%	1/10W				
R18	I-216-063-00	METAL GLAZE	3.9K	5%	1/10W				
R19	I-216-097-00	METAL GLAZE	100K	5%	1/10W				
R20	I-216-075-00	METAL GLAZE	12K	5%	1/10W				
R22	I-216-099-00	METAL GLAZE	120K	5%	1/10W				
R24	I-216-089-00	METAL GLAZE	47K	5%	1/10W				
R25	I-216-077-00	METAL GLAZE	15K	5%	1/10W				
<VARIABLE RESISTOR>									
RV1	I-238-016-11	RES, ADJ, CARBON 10K							
RV2	I-238-019-11	RES, ADJ, CARBON 47K							

MISCELLANEOUS									

△ I-426-383-11		COIL, DEMAGNETIZATION (KV-C2161D)							
△ I-426-372-11		COIL, DEMAGNETIZATION (KV-C2561D)							
△ I-426-398-11		COIL, DEMAGNETIZATION (KV-C2961D)							
△ I-451-295-11		DEFLECTION YOKE (Y21PFA2) (KV-C2161D)							
△ I-451-311-21		DEFLECTION YOKE (Y25FXA) (KV-C2561D)							
△ I-451-313-21		DEFLECTION YOKE (Y29FXA) (KV-C2961D)							
I-452-032-00		MAGNET, DISK; 10MM ϕ							
I-452-094-00		MAGNET, ROTATABLE DISK; 15MM ϕ							
I-452-277-00		MAGNET, BMC (KV-C2161D)							
△ I-452-509-42		NECK ASSY, PICTURE TUBE (NA-308)							
			(KV-C2961D)						
I-544-525-11		SPEAKER (KV-C2161D)							
I-504-146-11		SPEAKER (5X1ICM) (KV-C2561D, C2961D)							
△ I-590-501-11		CORD, POWER (WITH NOISE FILTER)							
V901	△ 8-738-758-05	PICTURE TUBE (A51JXH61X) (KV-C2161D)							
	△ 8-733-231-05	PICTURE TUBE (A59JWC61X) (KV-C2561D)							
	△ 8-733-831-05	PICTURE TUBE (A68JYL61X) (KV-C2961D)							

ACCESSORIES AND PACKING MATERIALS									

3-755-462-11		MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN/PORTUGUESE)							
			(KV-C2161D)						
*4-033-049-01		CUSHION (LOWER) (ASSY) (KV-C2161D)							
*4-033-050-01		CUSHION (UPPER) (ASSY) (KV-C2161D)							
*4-033-051-01		INDIVIDUAL CARTON (KV-C2161D)							
*4-380-340-01		BAG, PROTECTION (KV-C2161D)							
*4-202-040-01		INDIVIDUAL CARTON (KV-C2561D)							
*4-202-041-01		CUSHION (UPPER) (ASSY) (KV-C2561D)							
*4-202-042-01		CUSHION (LOWER) (ASSY) (KV-C2561D)							
4-200-974-11		MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN/PORTUGUESE)							
			(KV-C2561D)						
*4-396-065-01		BAG, PROTECTION (KV-C2561D)							
*4-202-005-01		INDIVIDUAL CARTON (KV-C2961D)							
*4-202-006-01		CUSHION (UPPER) (ASSY) (KV-C2961D)							
*4-202-009-01		CUSHION (BOTTOM) (KV-C2961D)							
4-200-973-11		MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN/PORTUGUESE)							
			(KV-C2961D)						

Sony Corporation

9-964-855-01

TV Group